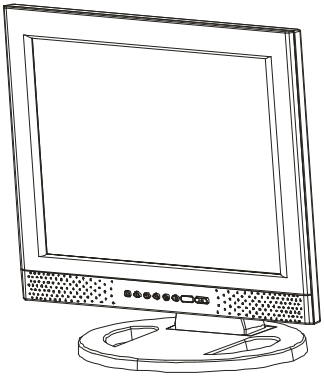
# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

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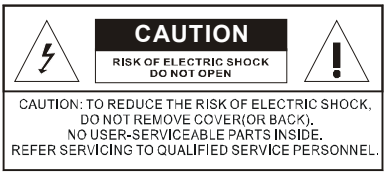
CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

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This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

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(1) LCD Color Monitor 1
(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
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## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

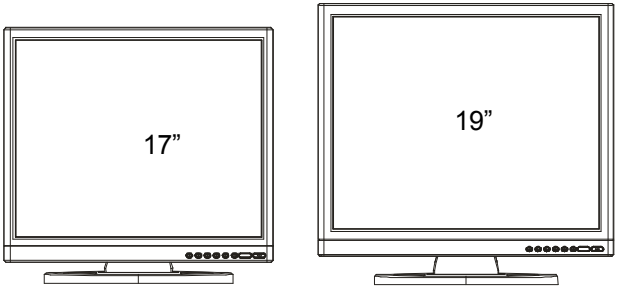
★ Support multiple language selections

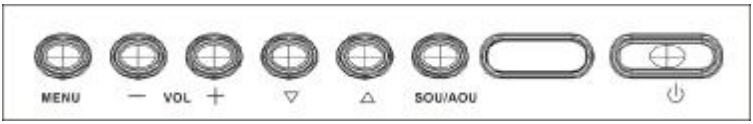
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

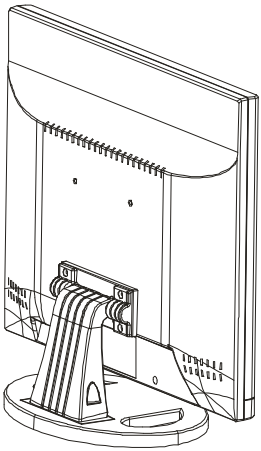
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

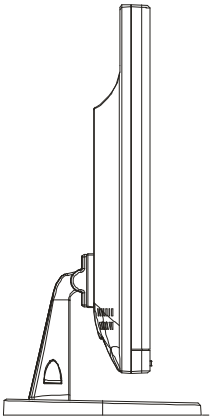


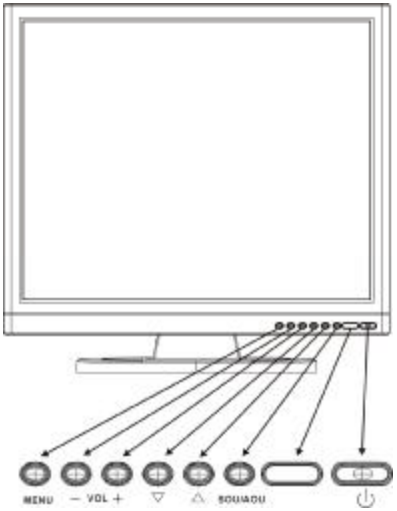

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

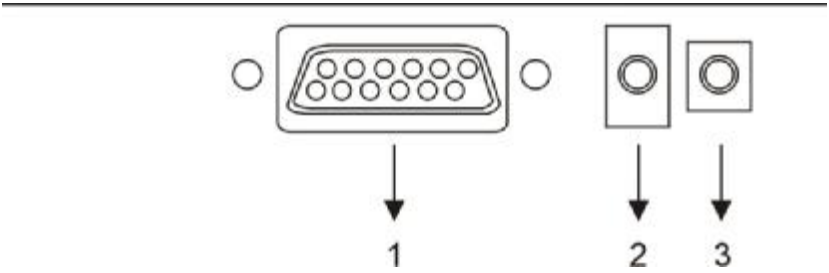
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

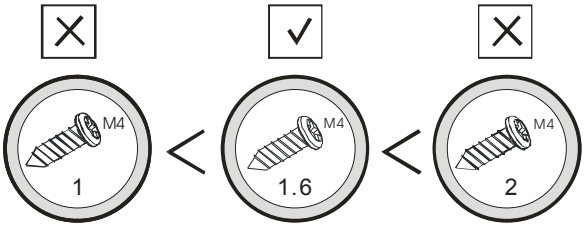
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

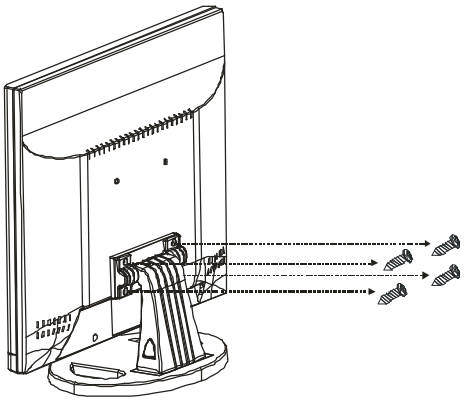
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

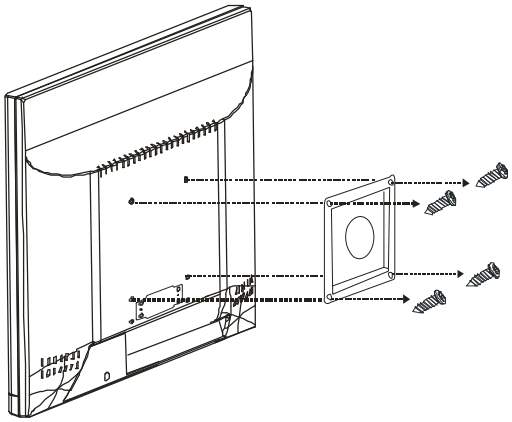



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

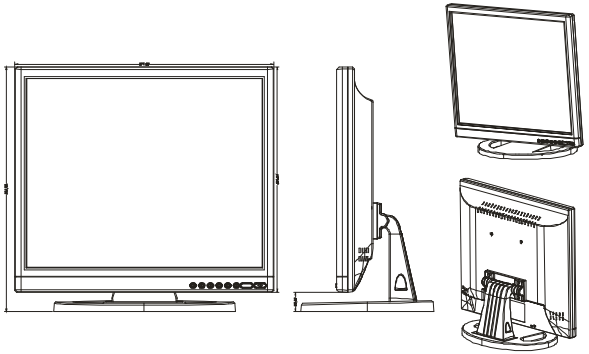
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



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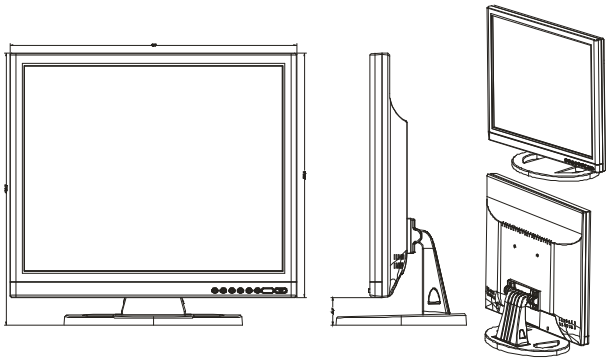

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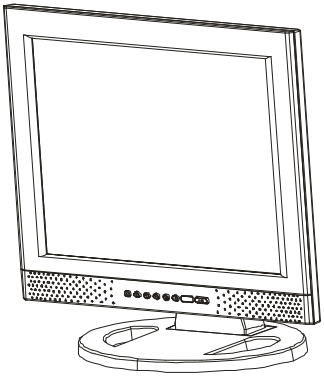

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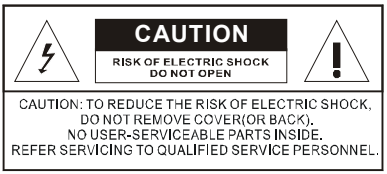
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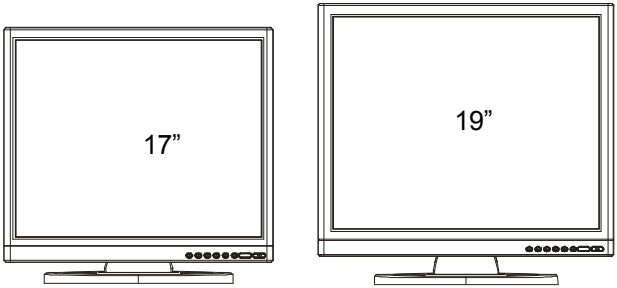
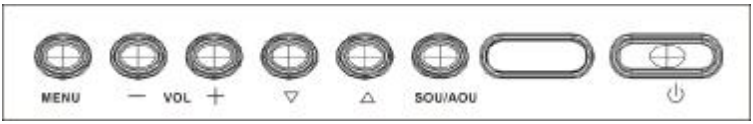
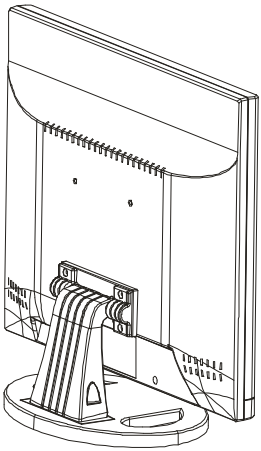
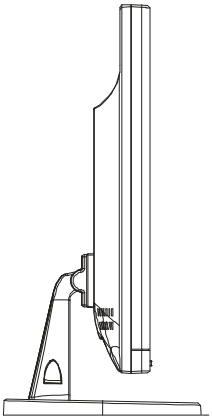



**Back**



**Side**



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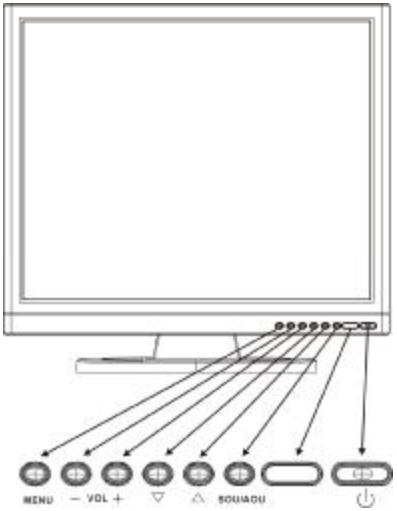


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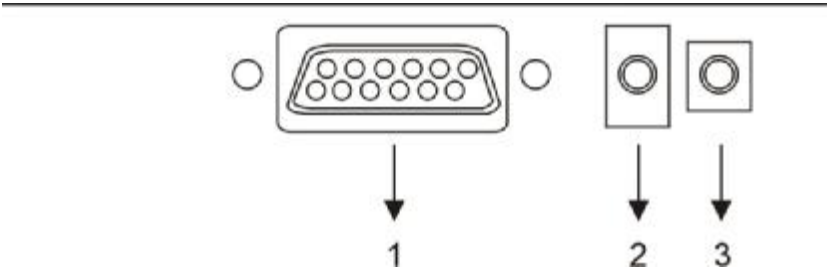


1. VGA input
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## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

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Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

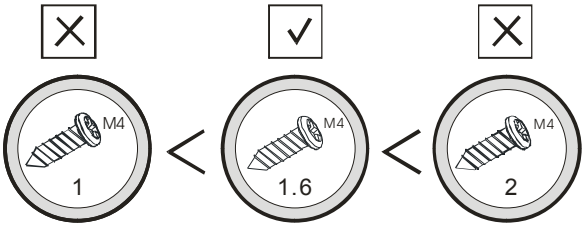
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

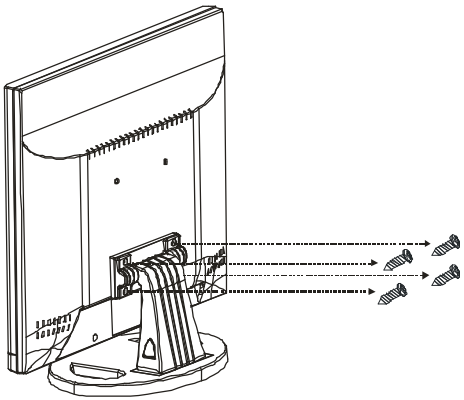
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

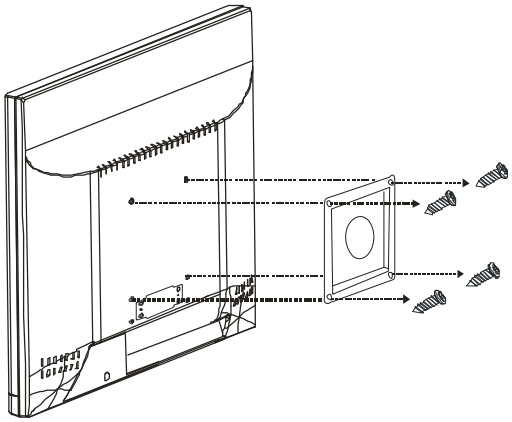



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

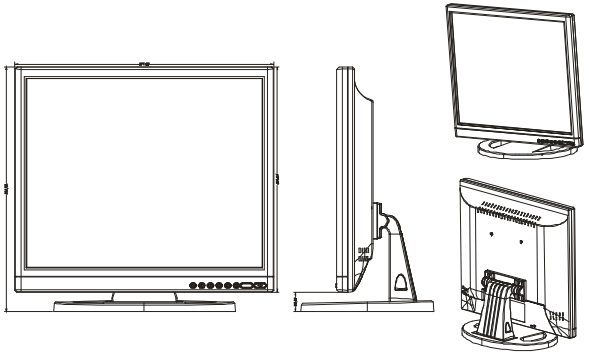
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

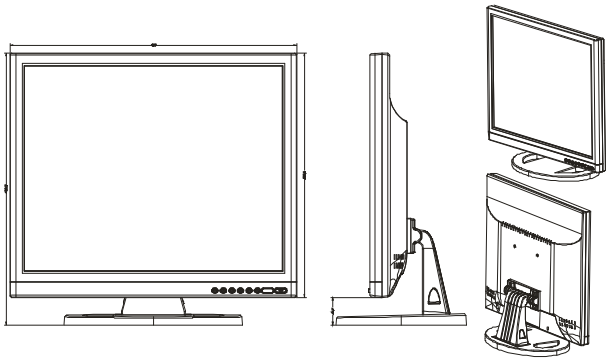
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



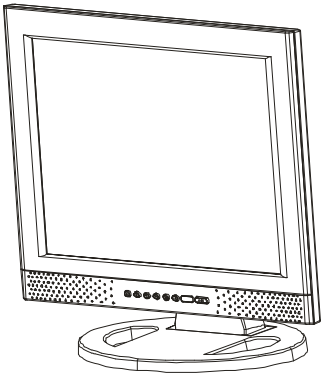
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



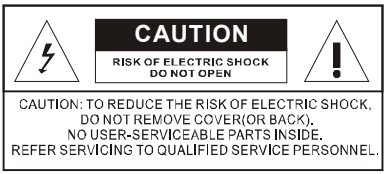
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

**FCC STATEMENT**

This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

**Canada Regulatory compliance statements**

This LCD does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

## Table of Contents

Warning…… 2
Important Safeguards…… 3
Safety Precautions……..4
Table of Contents…… 5
Components…….. …… 5
Feature…… 6
Exploring Your New Monitor……..7
Function Keys Instruction for LCD…….. 8
I/O Connection……9
OSD (On Screen Display)…… 10
Applicable Timing…… 13
Wall mountable……..... 14
Dimension……..... 15
Specification……..…….. 16

**Components**

(1) LCD Color Monitor 1
(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

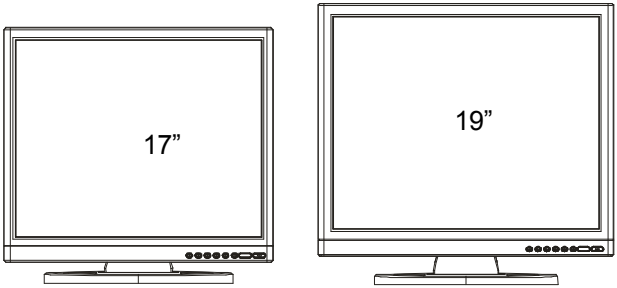
★ Support multiple language selections

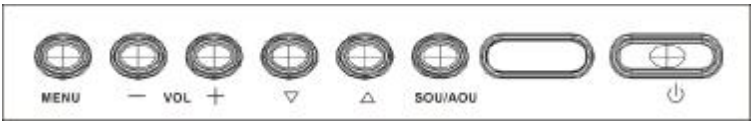
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

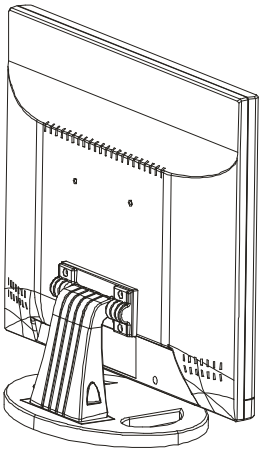
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

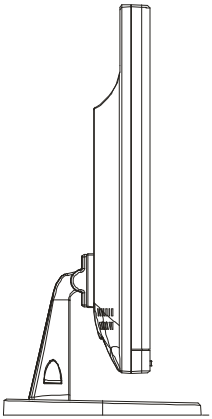


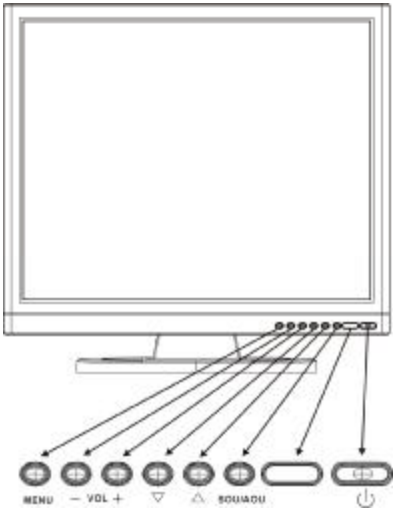

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

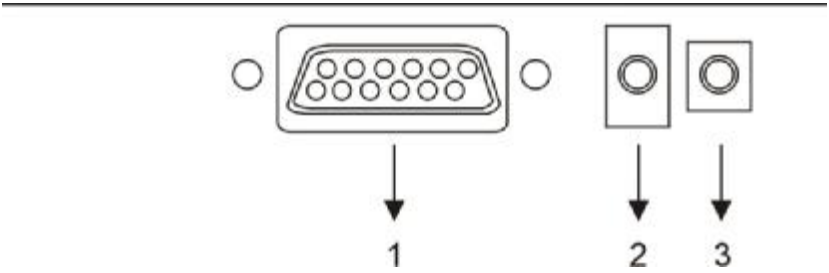
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
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OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
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Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
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**Analog RGB Input port**

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- Fully programmable zoom ratios
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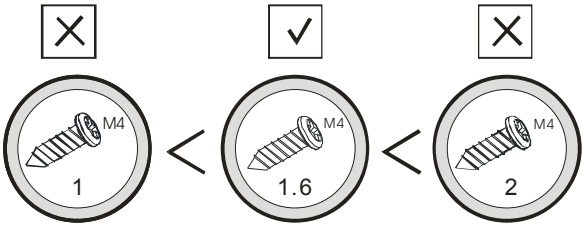
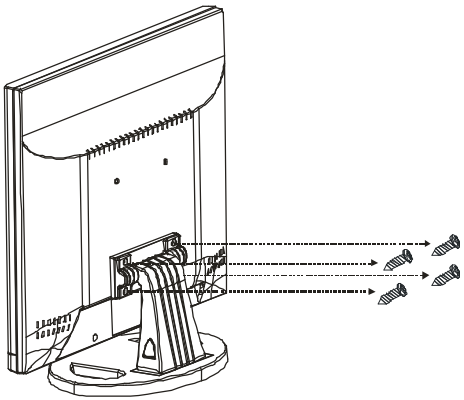
## Wall mountable

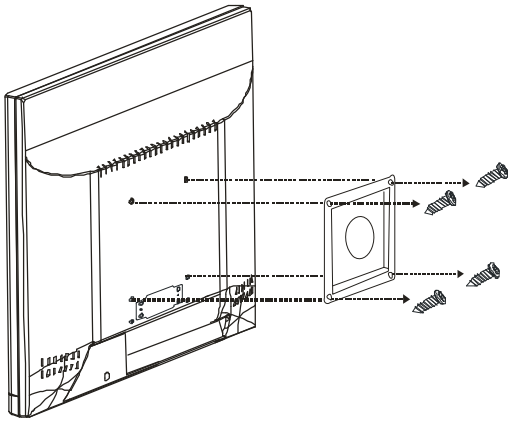



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

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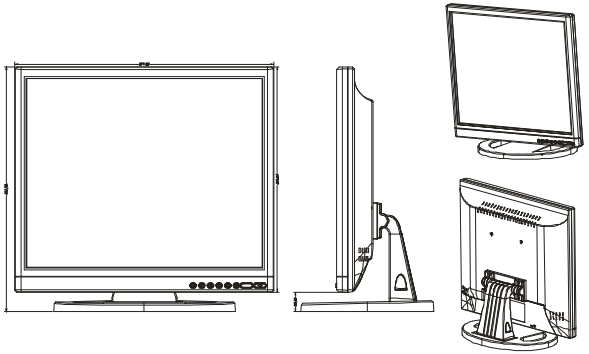
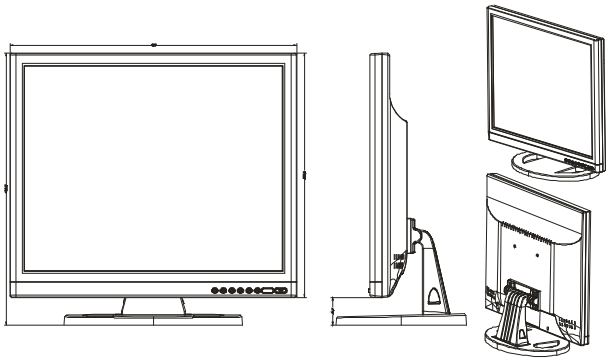
17” LCD



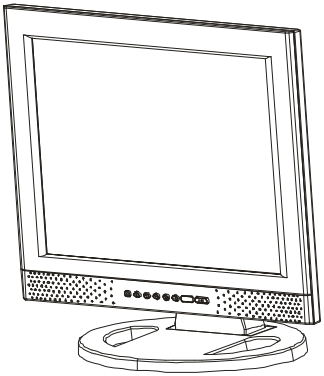
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



**Speco Technologies**
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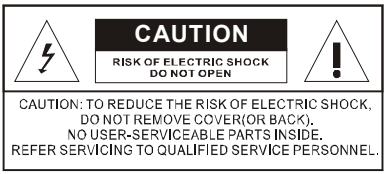
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- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

**FCC STATEMENT**

This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

**Canada Regulatory compliance statements**

This LCD does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

## Table of Contents

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Important Safeguards…… 3
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Exploring Your New Monitor……..7
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I/O Connection……9
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(1) LCD Color Monitor 1
(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

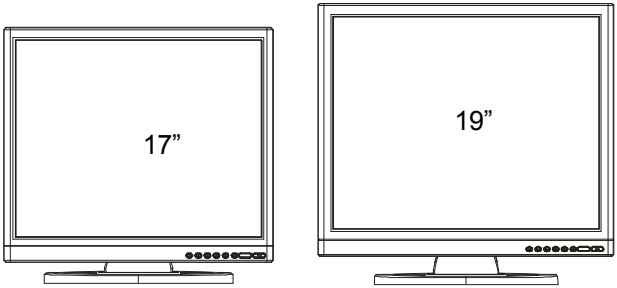
★ Support multiple language selections

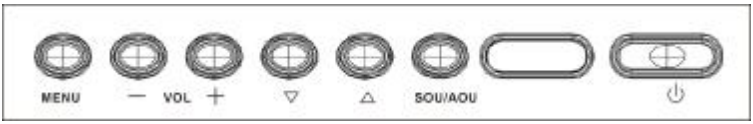
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

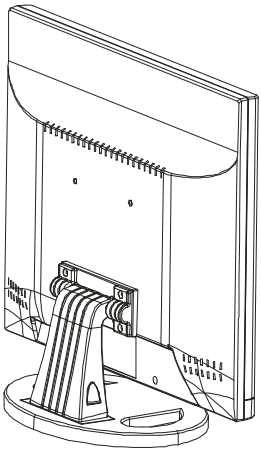
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

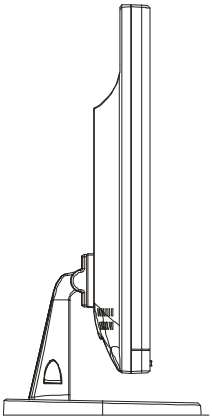


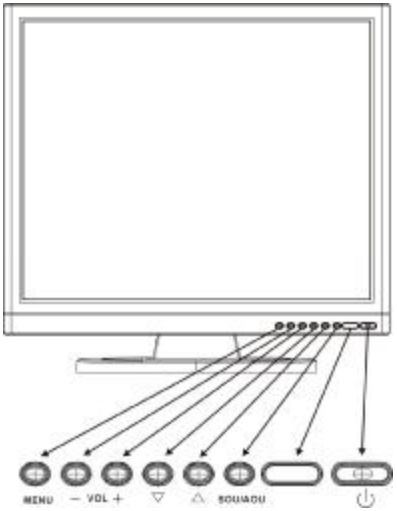

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

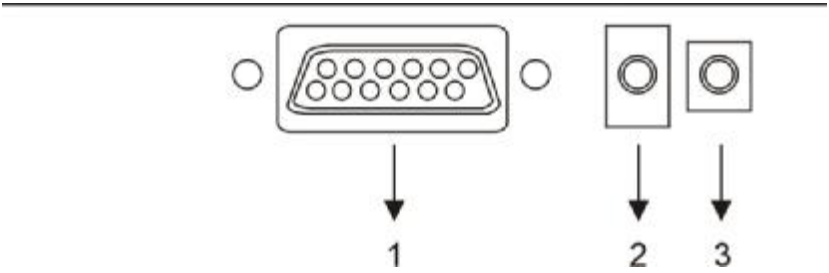
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

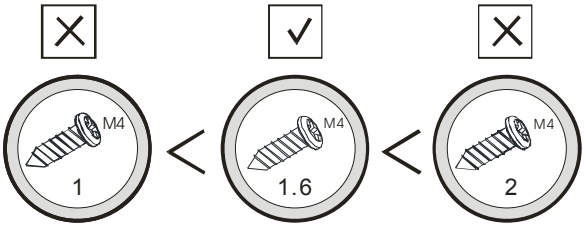
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

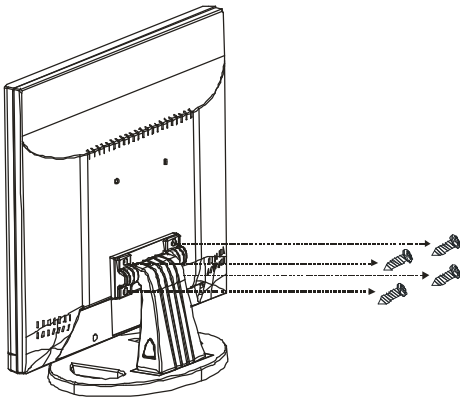
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

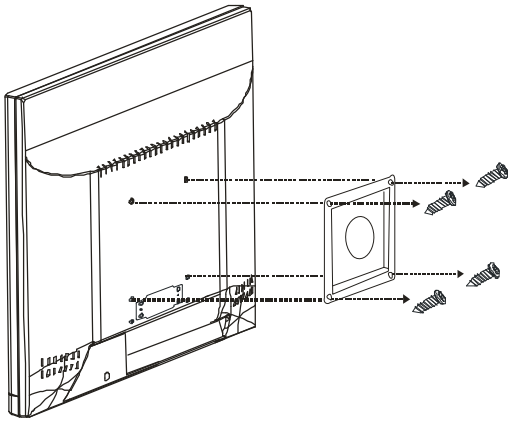



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

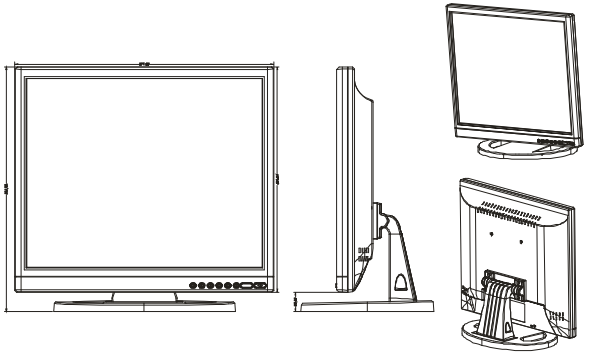
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

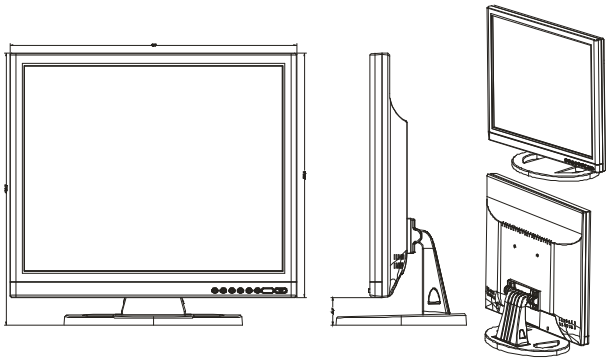
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



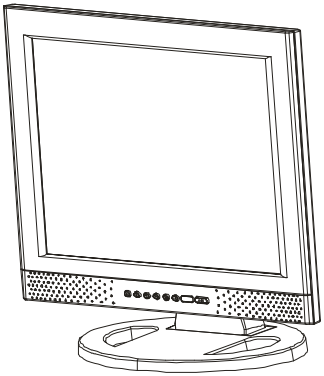
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



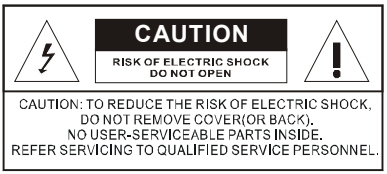
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

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★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

★ Support multiple language selections

★ 2D comb filter and 2D de-interlace

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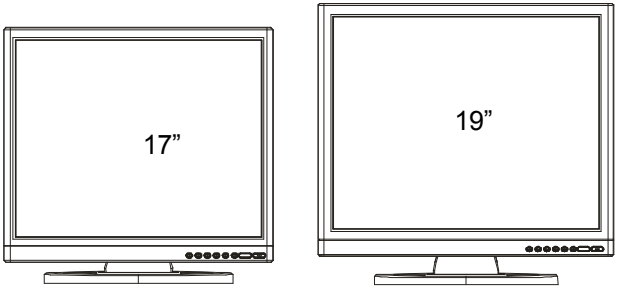
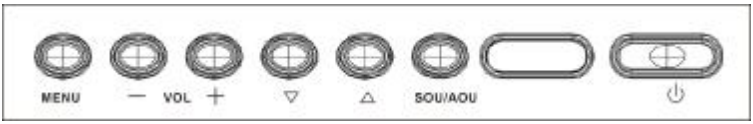
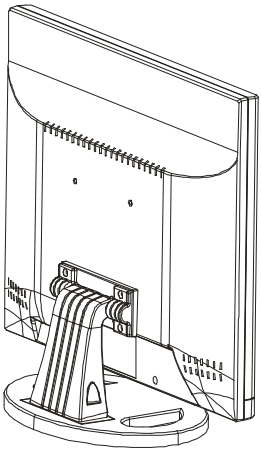
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

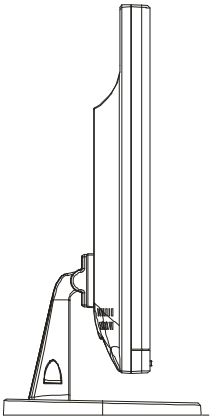


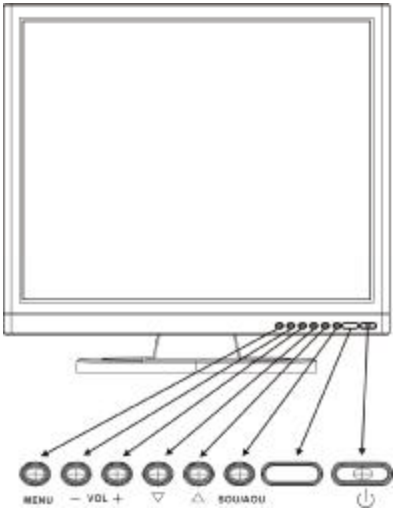

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

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**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

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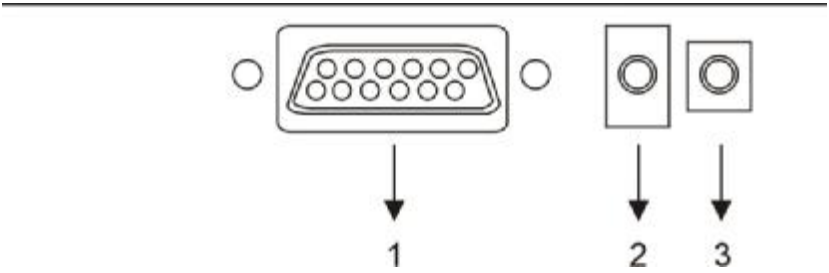


1. VGA input
2. PC Audio input
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## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

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Exit：Back to main menu.

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Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

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Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

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VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
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**Auto Detection/Auto calibration**

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- Smart engine for Phase/Image position/Color calibration

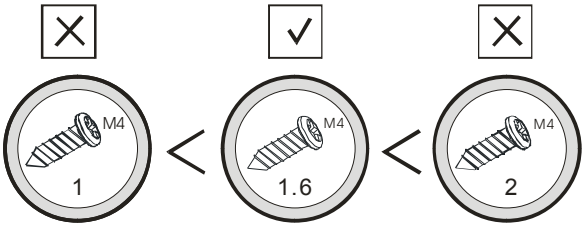
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

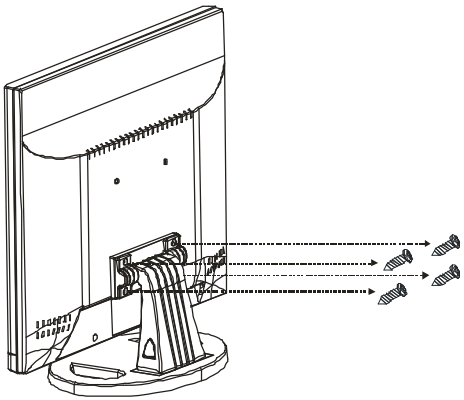
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable




M4 x 16L

User please use the correct screw type when installation.



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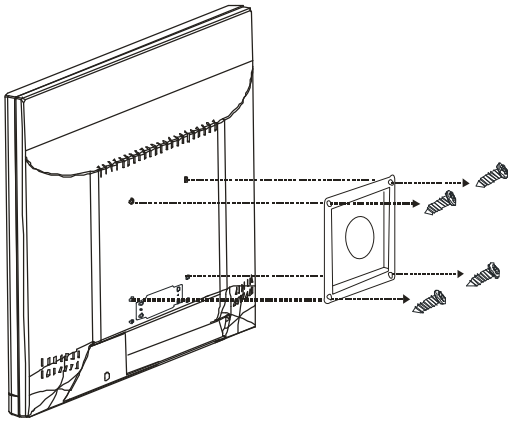


# Specification

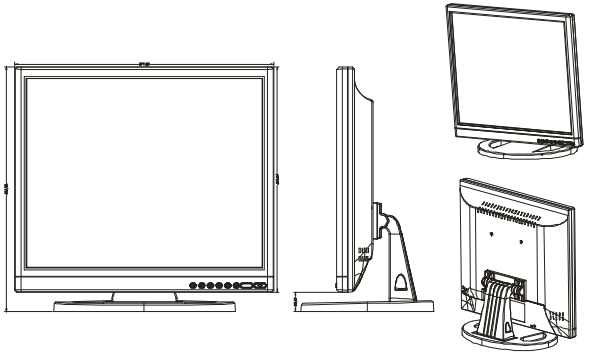
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

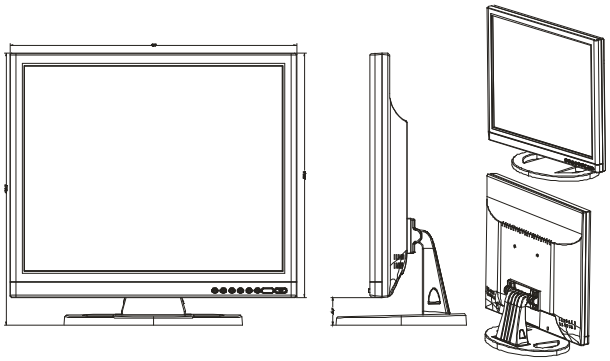
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



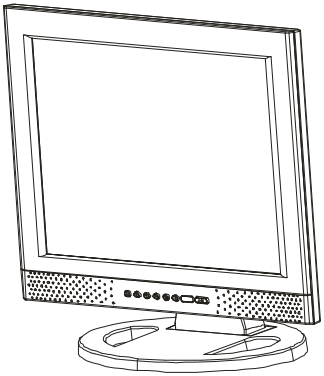
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



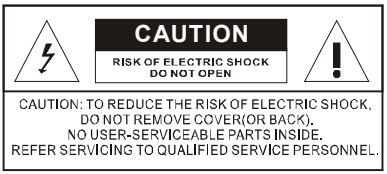
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

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Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

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**Canada Regulatory compliance statements**

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## Table of Contents

Warning…… 2
Important Safeguards…… 3
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Feature…… 6
Exploring Your New Monitor……..7
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I/O Connection……9
OSD (On Screen Display)…… 10
Applicable Timing…… 13
Wall mountable……..... 14
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(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

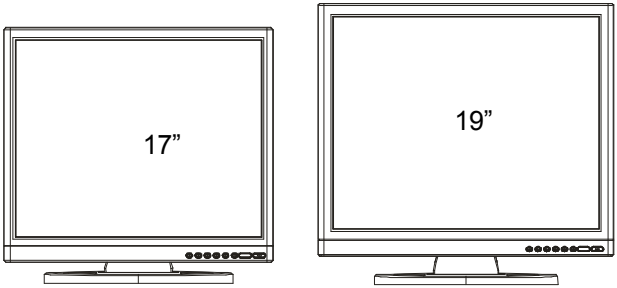
★ Support multiple language selections

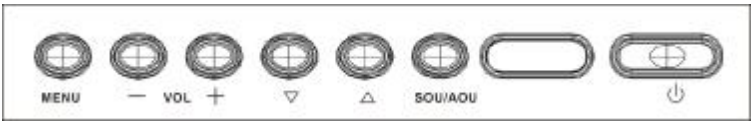
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

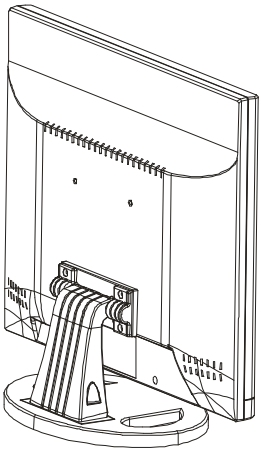
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

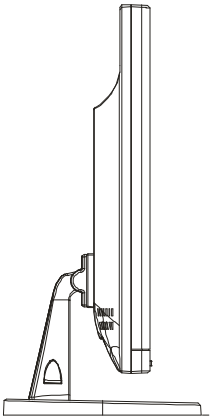


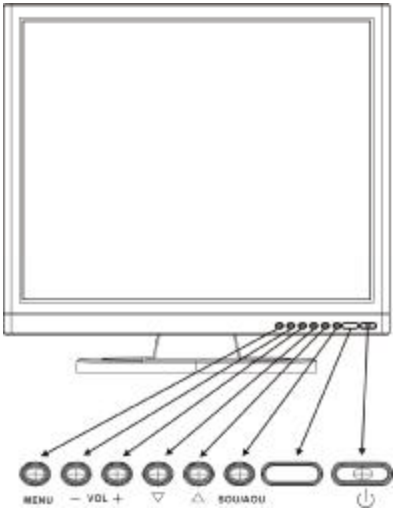

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

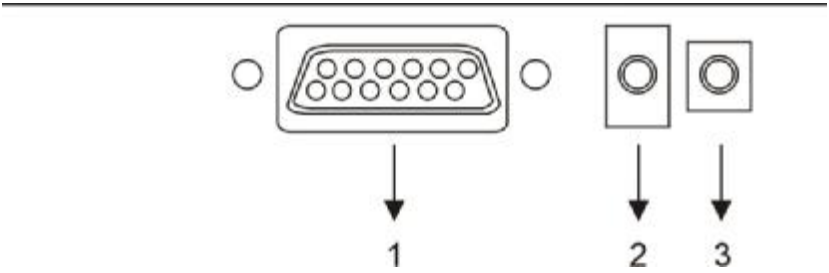
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

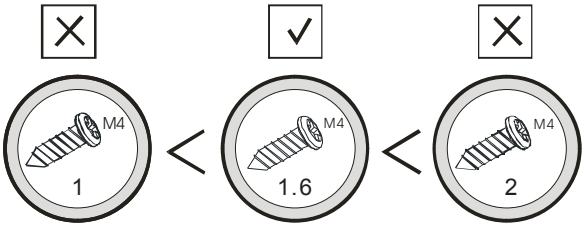
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable




M4 x 16L

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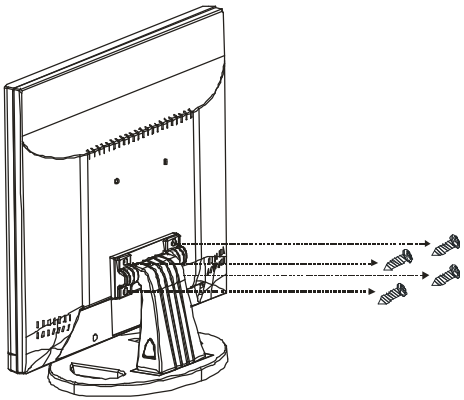

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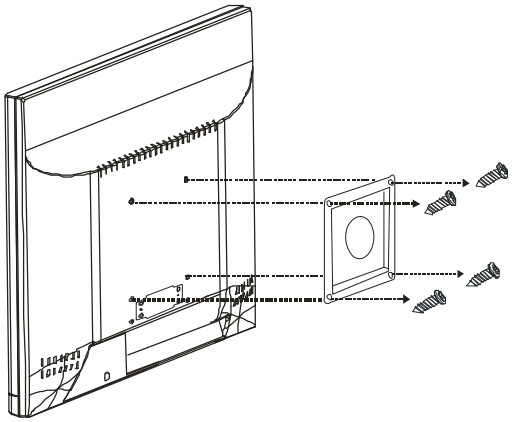

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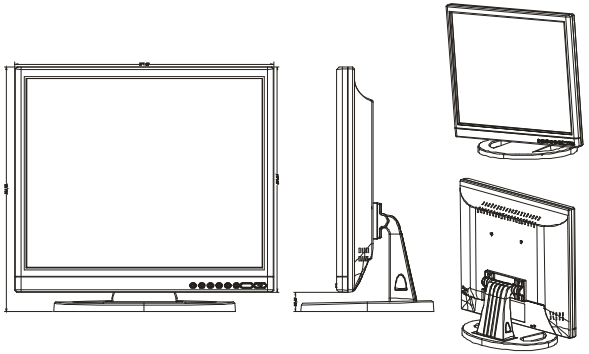

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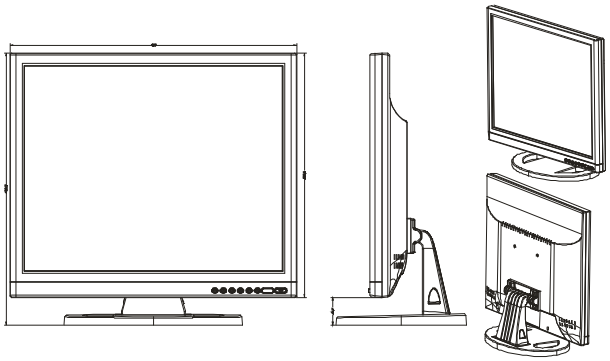
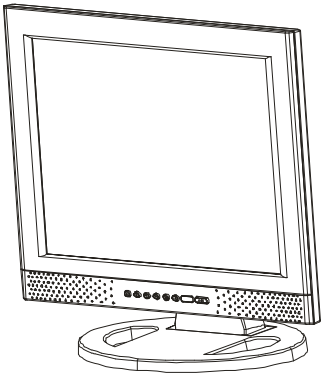


# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



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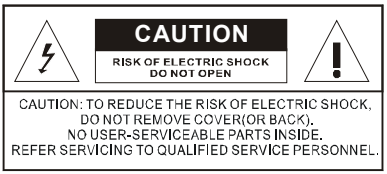
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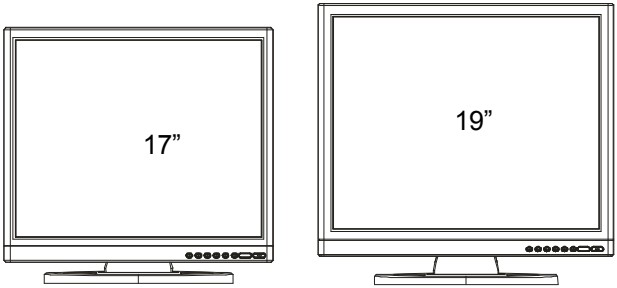
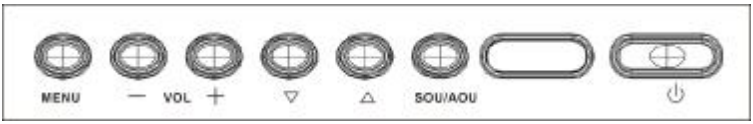
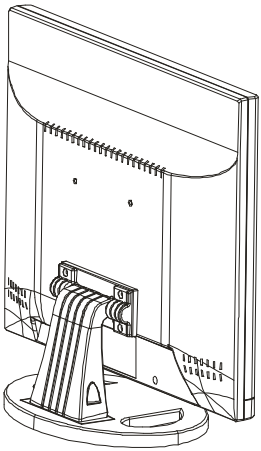
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

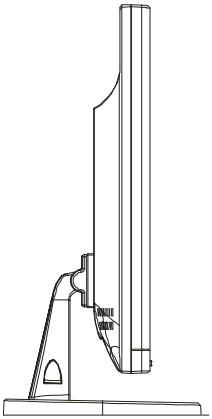


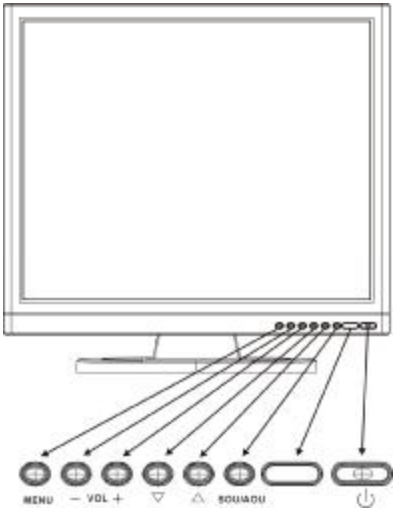

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

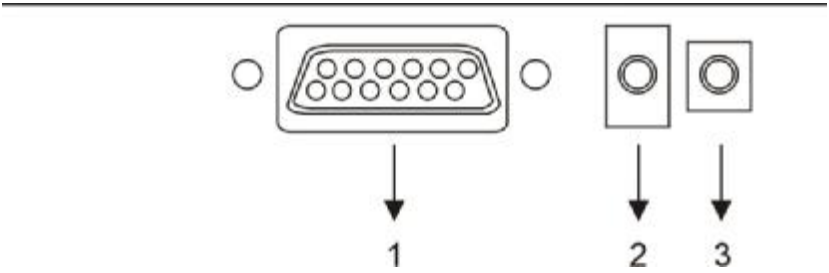
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

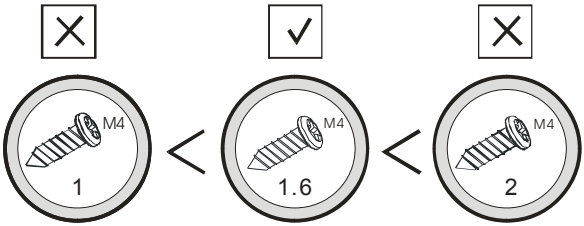
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

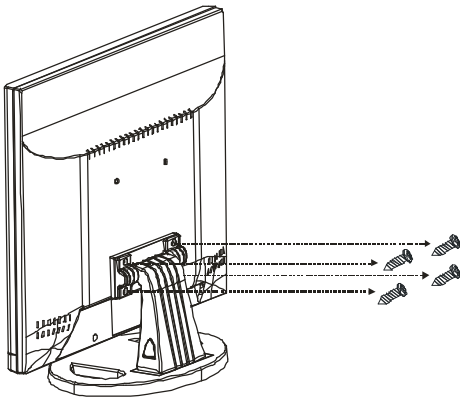
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

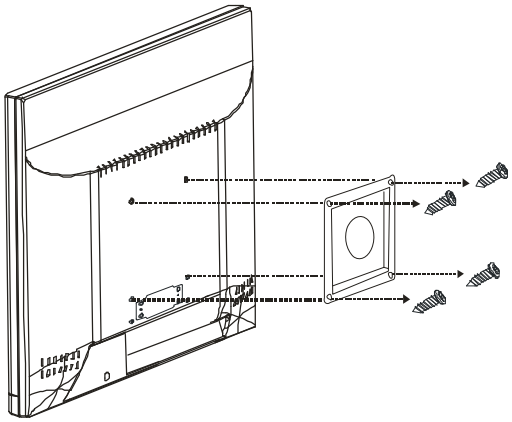



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

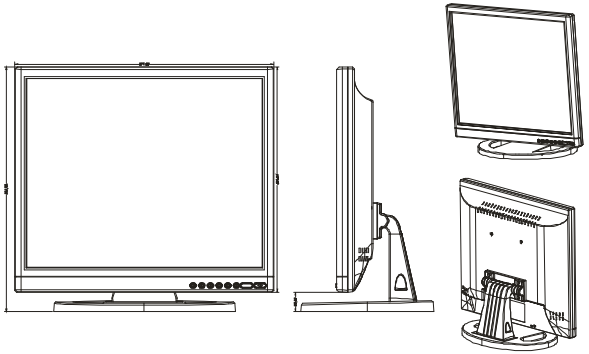
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

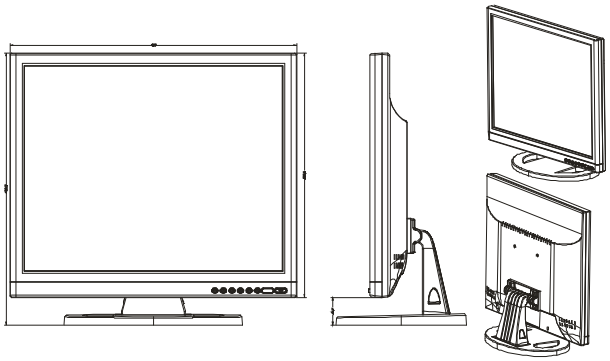
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



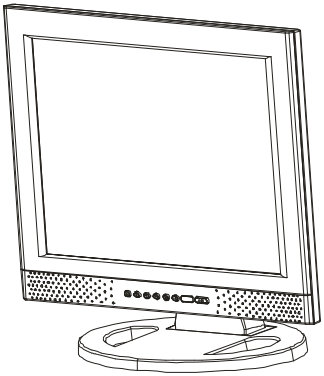
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



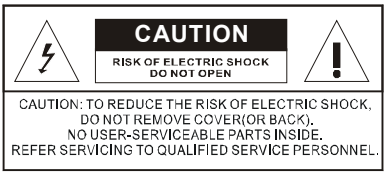
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

**FCC STATEMENT**

This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

**Canada Regulatory compliance statements**

This LCD does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

## Table of Contents

Warning…… 2
Important Safeguards…… 3
Safety Precautions……..4
Table of Contents…… 5
Components…….. …… 5
Feature…… 6
Exploring Your New Monitor……..7
Function Keys Instruction for LCD…….. 8
I/O Connection……9
OSD (On Screen Display)…… 10
Applicable Timing…… 13
Wall mountable……..... 14
Dimension……..... 15
Specification……..…….. 16

**Components**

(1) LCD Color Monitor 1
(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

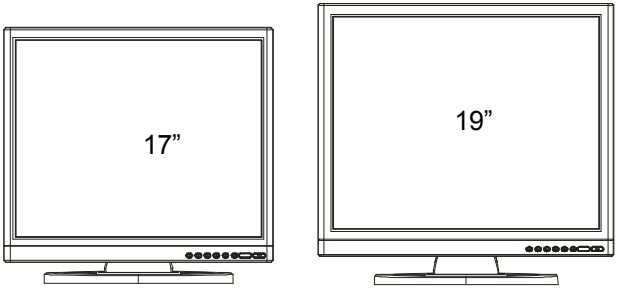
★ Support multiple language selections

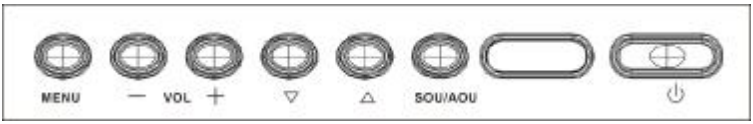
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

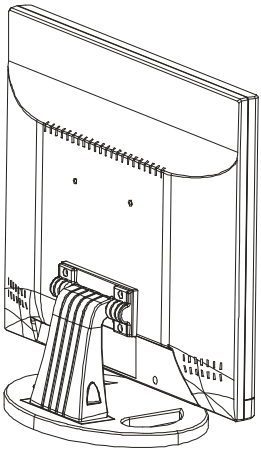
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

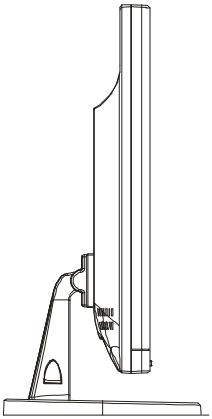


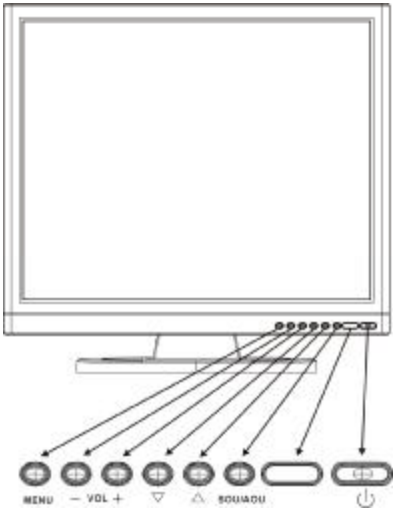

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

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**MENU** Menu: Activate OSD menu

**+** Right : Increase setting the menu bar, hot key to adjust volume up

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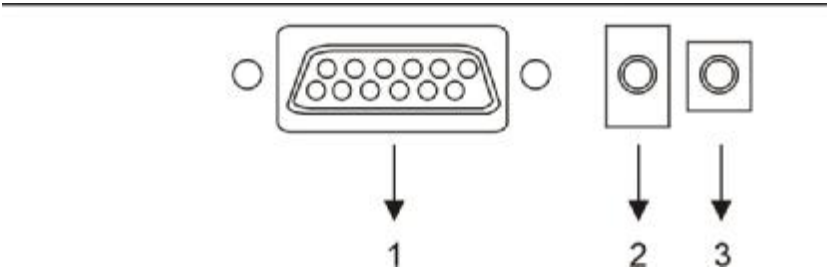
**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
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SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
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Clock：This function will provide user to adjust the clock of display screen.
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Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
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Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
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- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

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- Smart engine for Phase/Image position/Color calibration

**Scaling**

- Fully programmable zoom ratios
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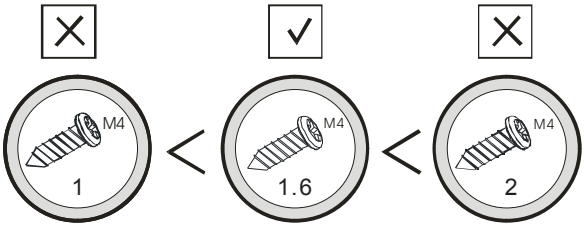
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

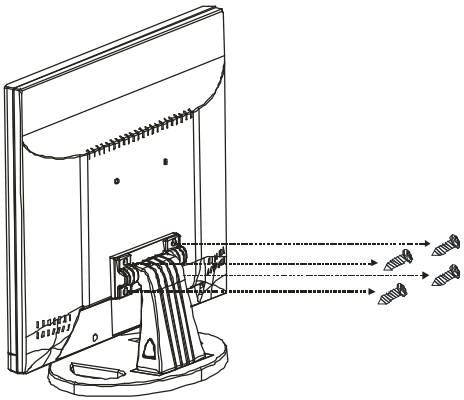
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable




M4 x 16L

User please use the correct screw type when installation.



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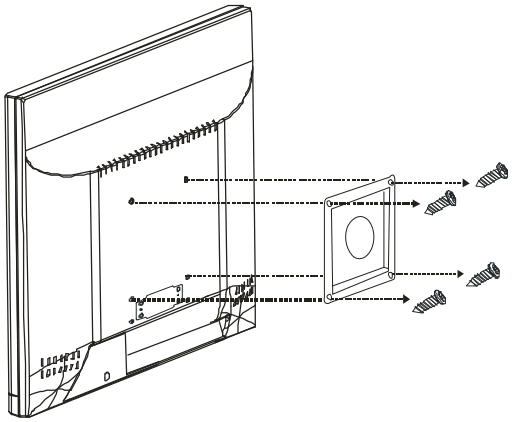

# Specification

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| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
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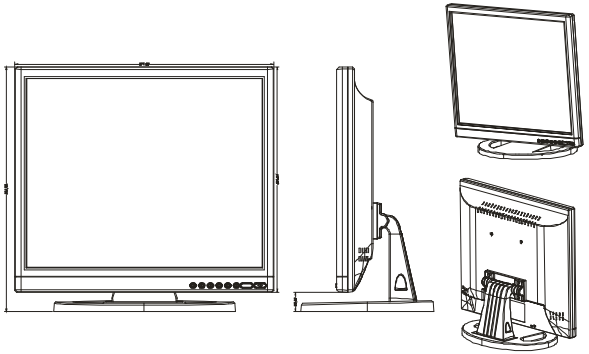
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

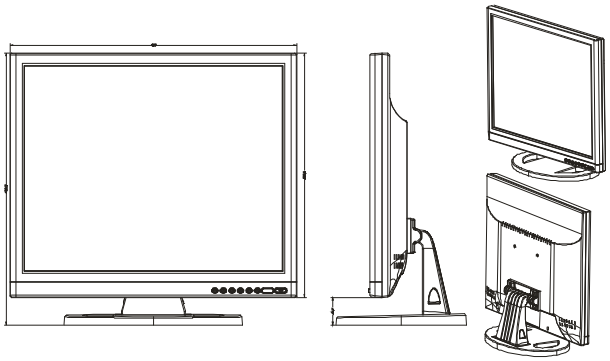
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



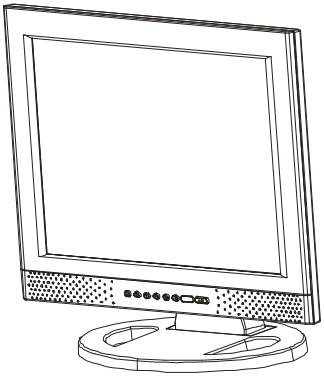
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



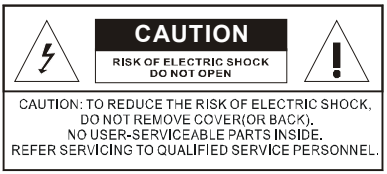
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

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- Reorient or relocate the receiving antenna.
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- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

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This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

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(1) LCD Color Monitor 1
(2) Accessories
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(b) User Manual 1
(c) Audio PC line 1
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(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

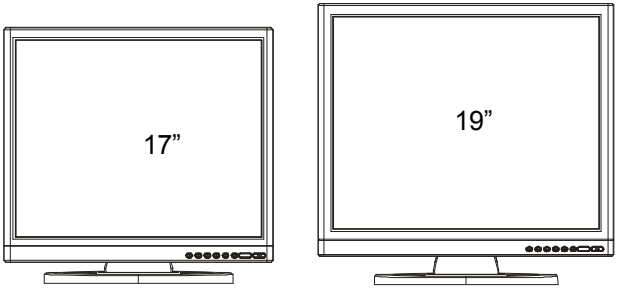
★ Support multiple language selections

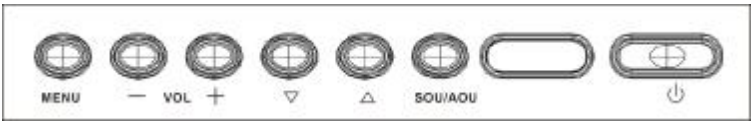
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

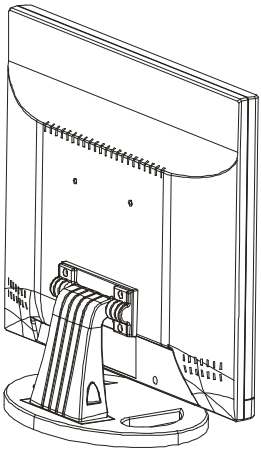
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

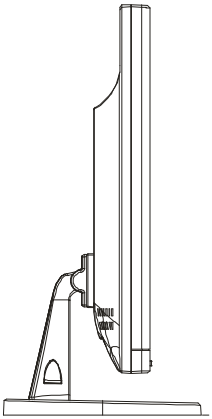


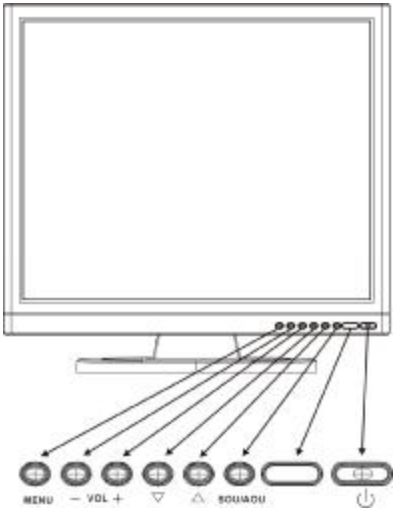

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

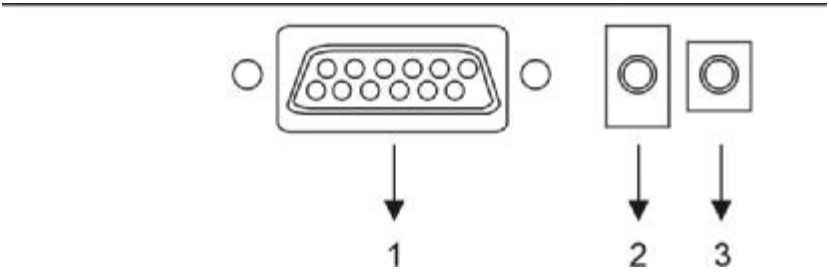
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

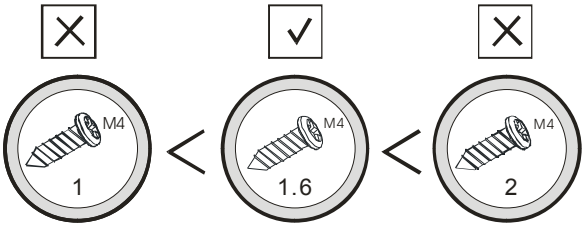
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

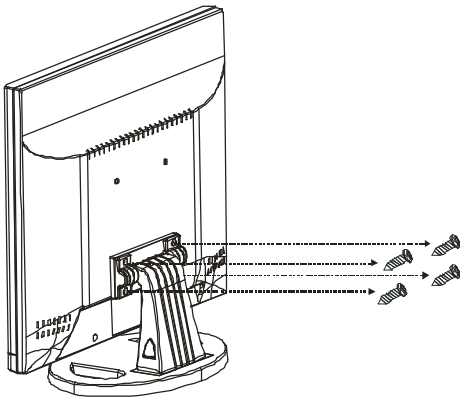
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

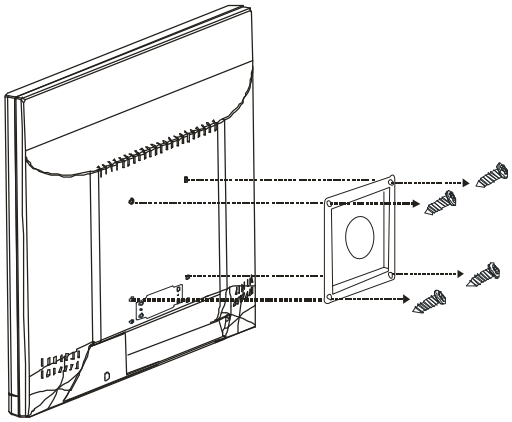



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

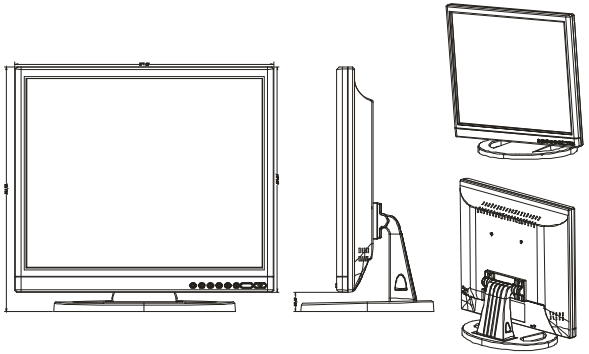
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



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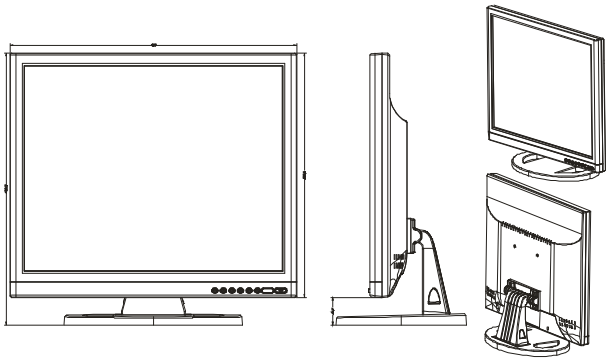

# VGA17LCD
# VGA19LCD

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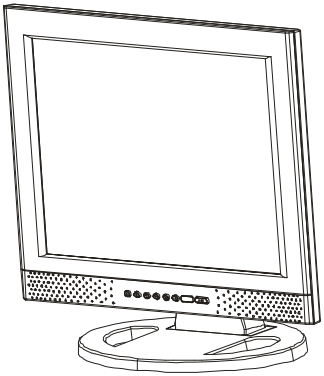
## USER MANUAL



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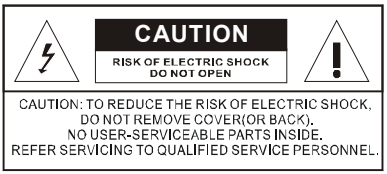
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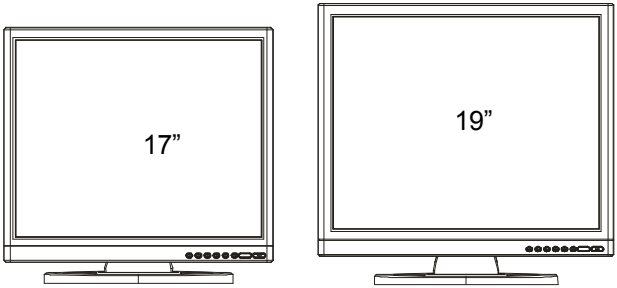
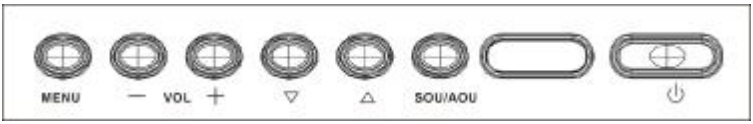
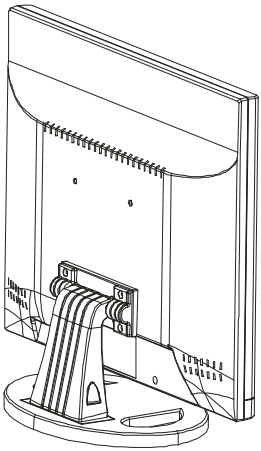
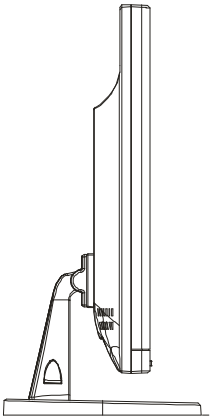



**Back**



**Side**



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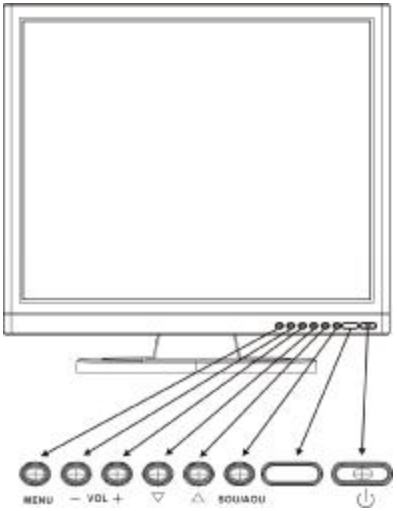


△ Up: Scroll up the menu bar, hot key to adjust channel up

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**SOU/AOU** Source: Change input source / Auto adjust

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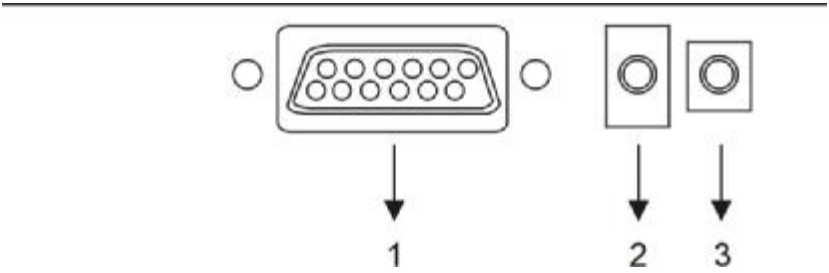


1. VGA input
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## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

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Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

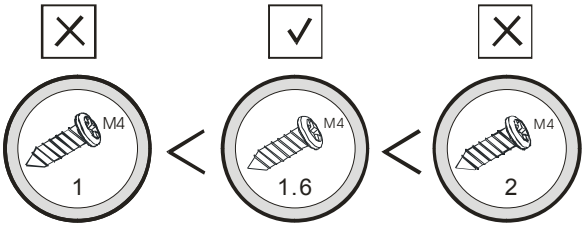
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

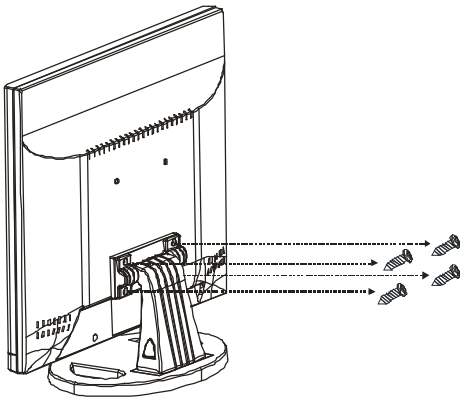
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

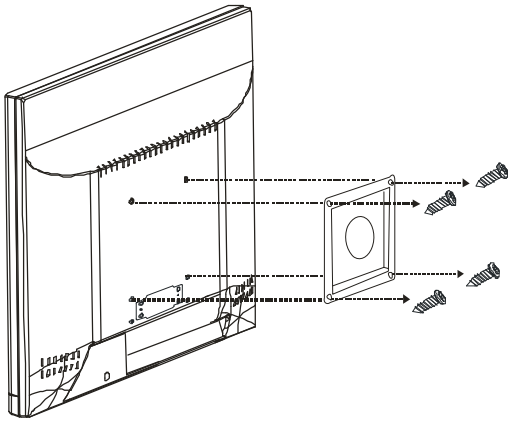



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

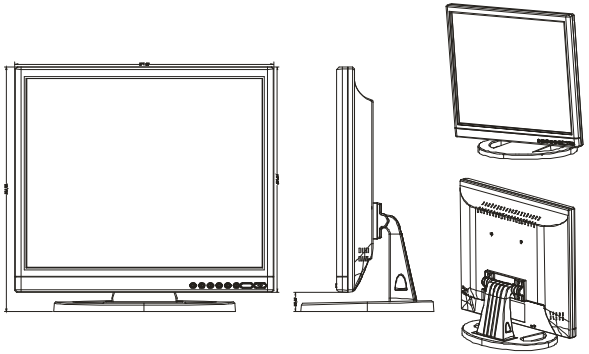
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

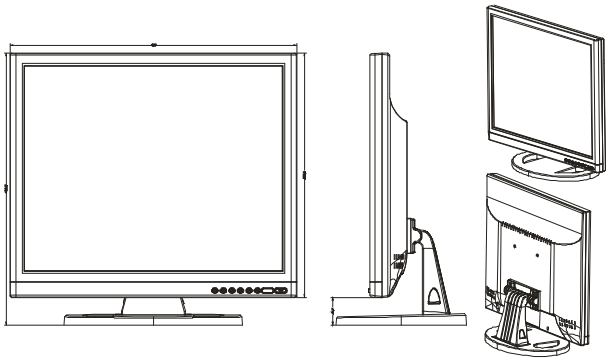
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



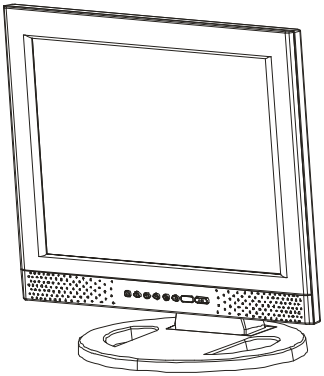
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



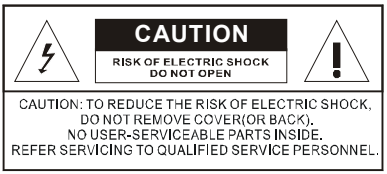
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

**FCC STATEMENT**

This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

**Canada Regulatory compliance statements**

This LCD does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

## Table of Contents

Warning…… 2
Important Safeguards…… 3
Safety Precautions……..4
Table of Contents…… 5
Components…….. …… 5
Feature…… 6
Exploring Your New Monitor……..7
Function Keys Instruction for LCD…….. 8
I/O Connection……9
OSD (On Screen Display)…… 10
Applicable Timing…… 13
Wall mountable……..... 14
Dimension……..... 15
Specification……..…….. 16

**Components**

(1) LCD Color Monitor 1
(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

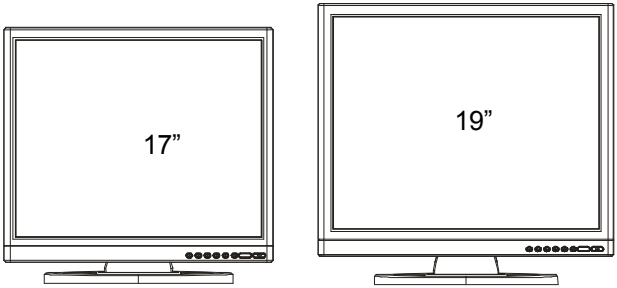
★ Support multiple language selections

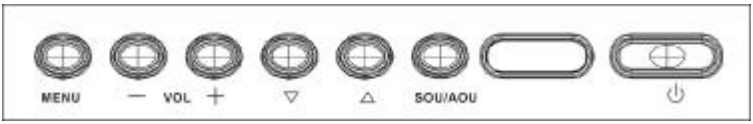
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

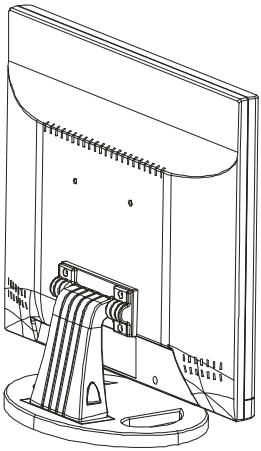
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

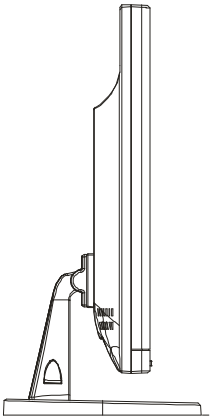


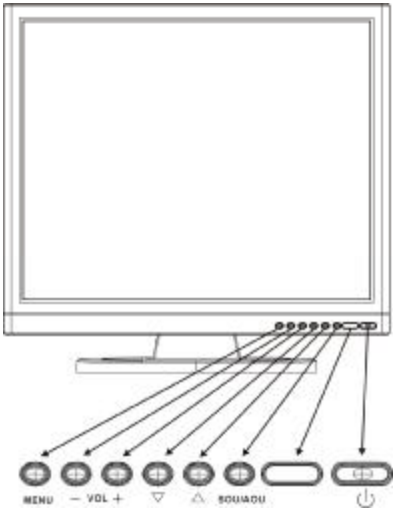

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

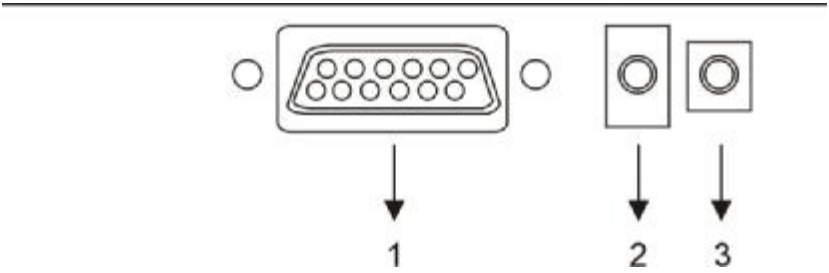
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
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Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
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**Scaling**

- Fully programmable zoom ratios
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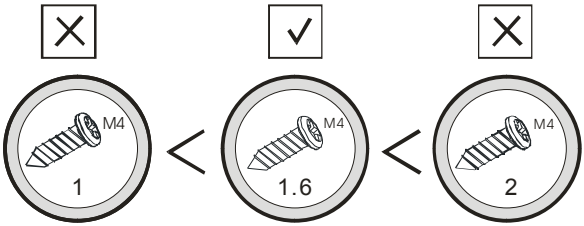
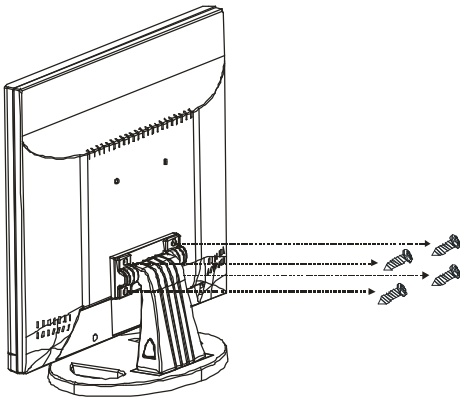
## Wall mountable




M4 x 16L

User please use the correct screw type when installation.



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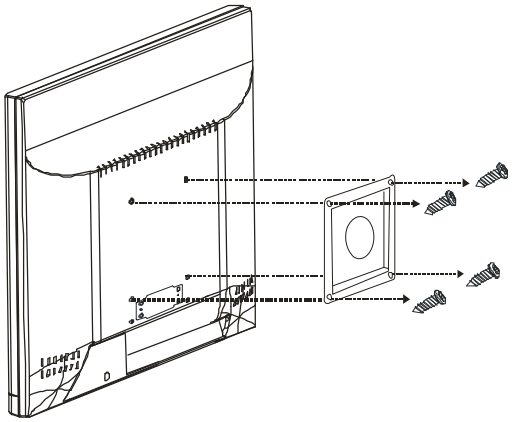

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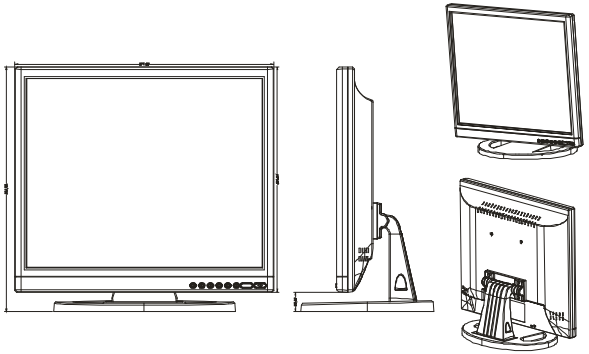
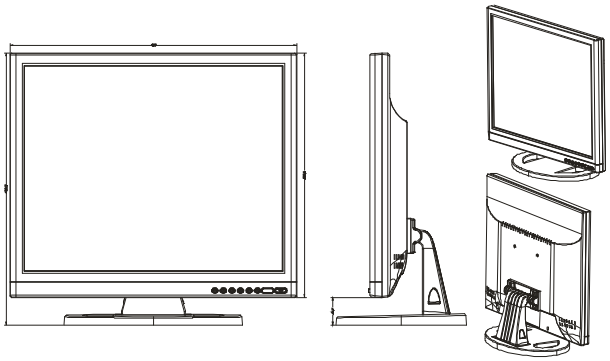
17” LCD



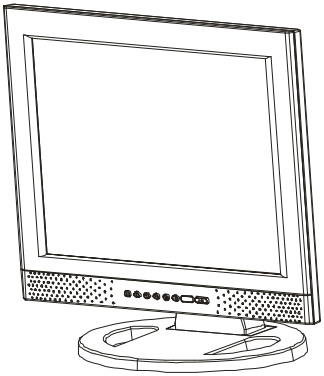
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



**Speco Technologies**
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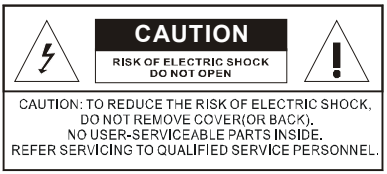
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- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

**FCC STATEMENT**

This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

**Canada Regulatory compliance statements**

This LCD does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

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(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

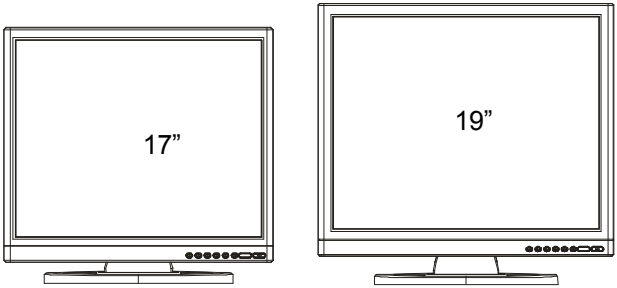
★ Support multiple language selections

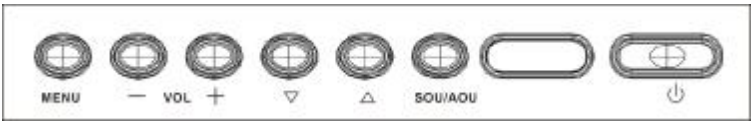
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

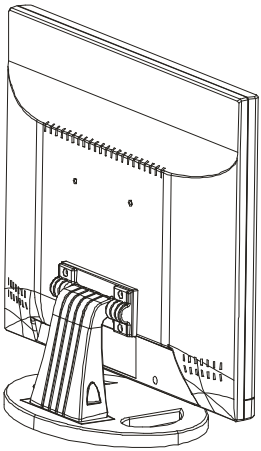
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

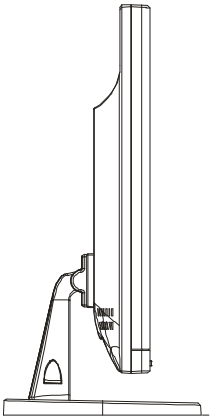


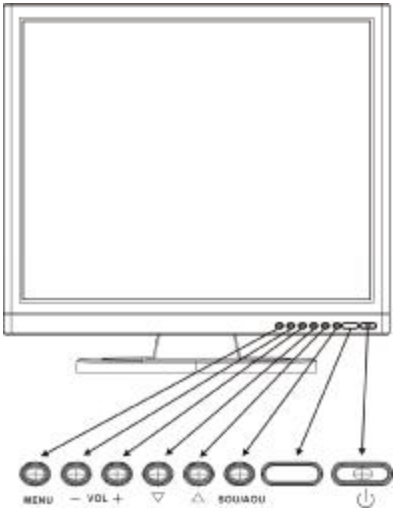

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

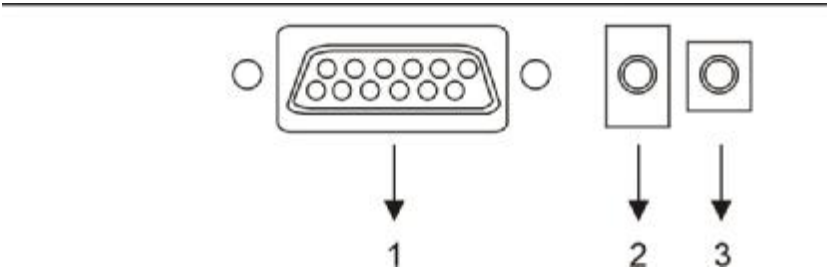
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

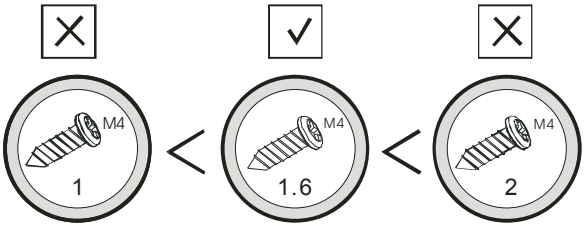
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

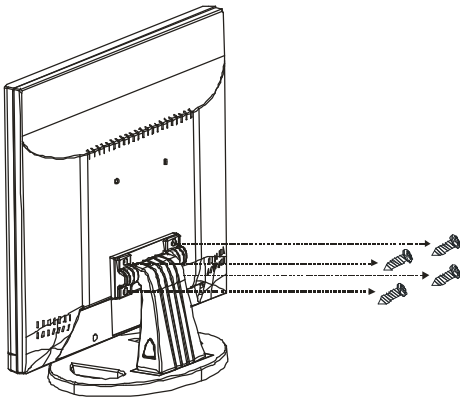
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

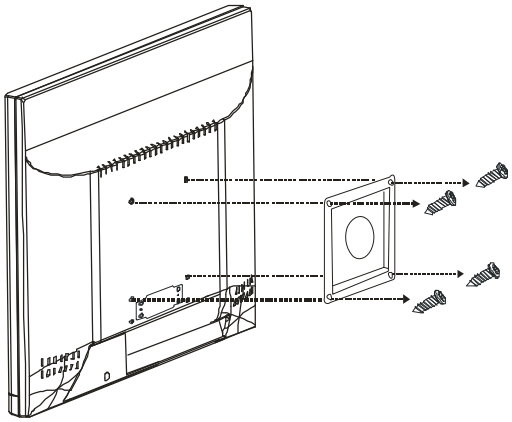



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

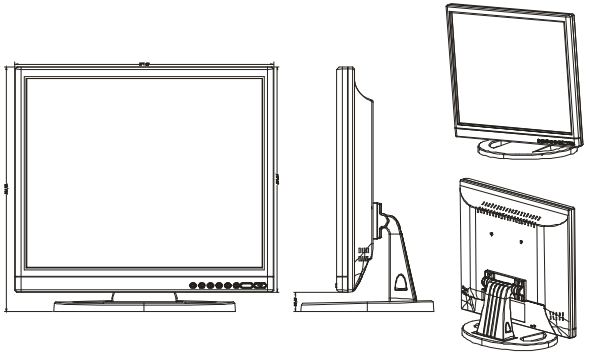
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

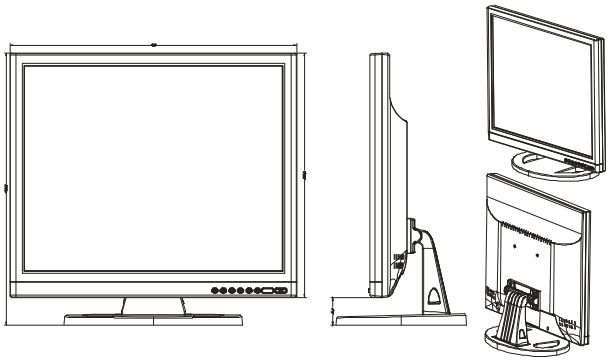
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



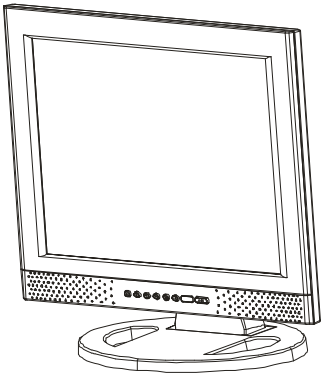
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



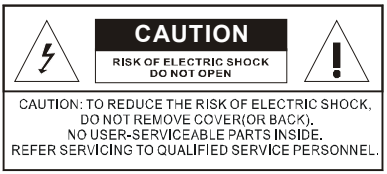
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
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★ 1280*1024 SVGA support for computer input (17”/19”)

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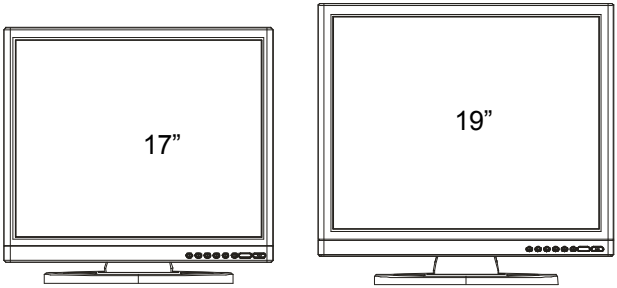
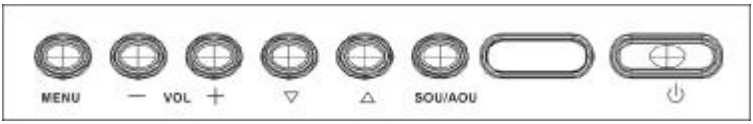
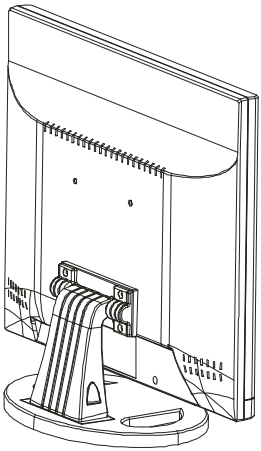
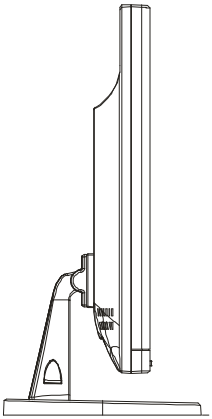



**Back**



**Side**



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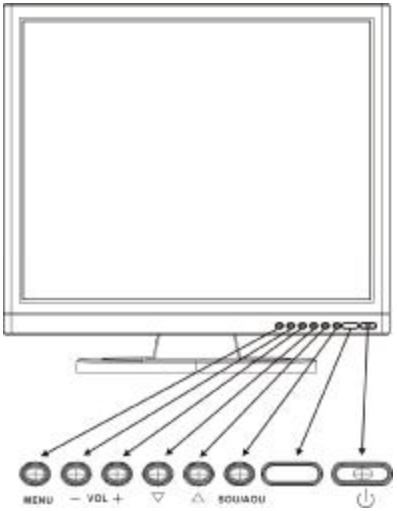


△ Up: Scroll up the menu bar, hot key to adjust channel up

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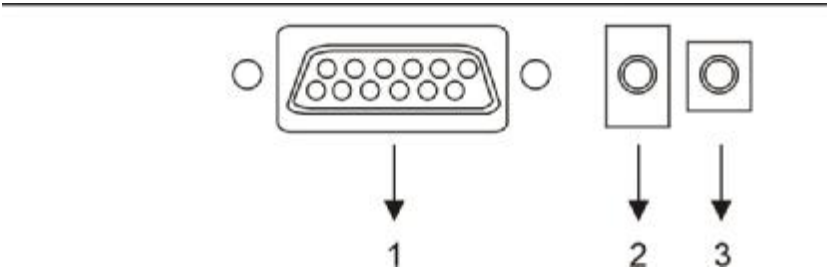
**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
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## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

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Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
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Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

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VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
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- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

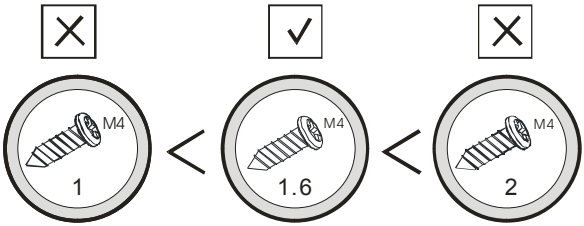
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

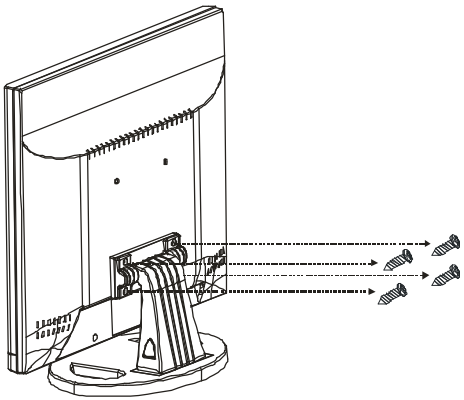
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

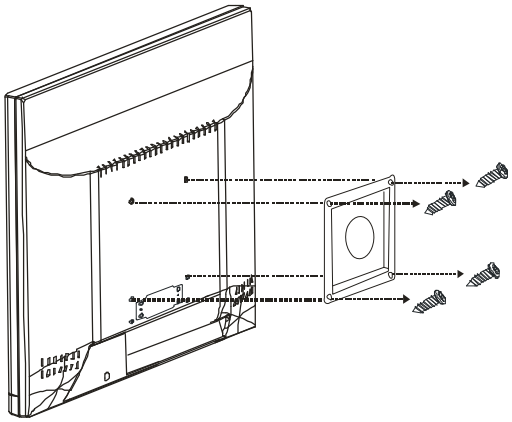



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

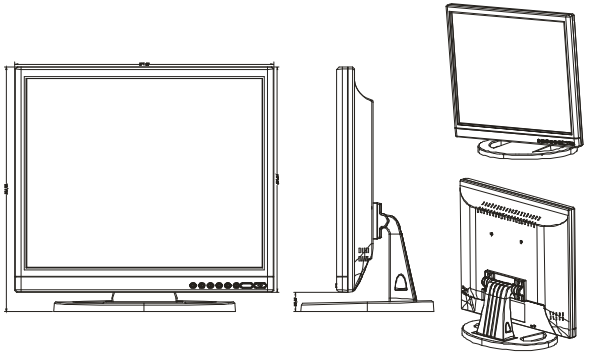
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

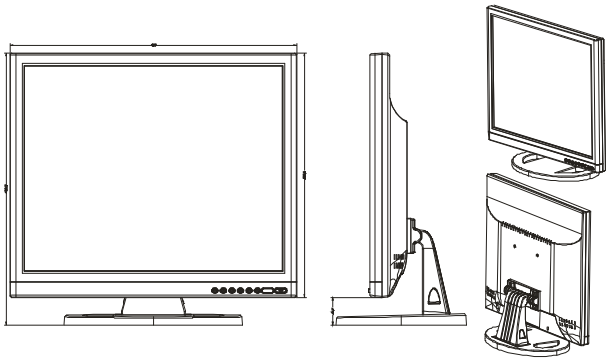
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



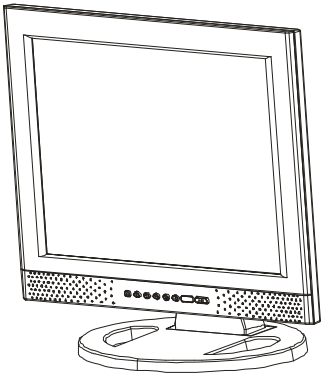
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



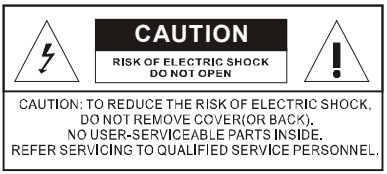
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

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Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

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This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

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## Table of Contents

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Important Safeguards…… 3
Safety Precautions……..4
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Feature…… 6
Exploring Your New Monitor……..7
Function Keys Instruction for LCD…….. 8
I/O Connection……9
OSD (On Screen Display)…… 10
Applicable Timing…… 13
Wall mountable……..... 14
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(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

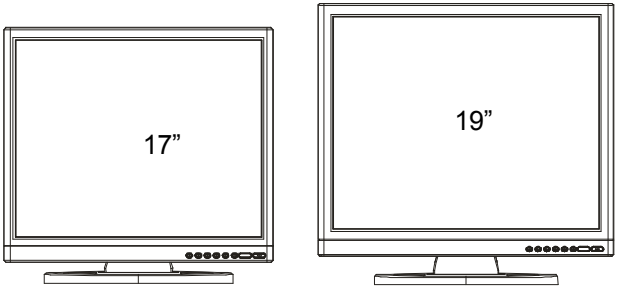
★ Support multiple language selections

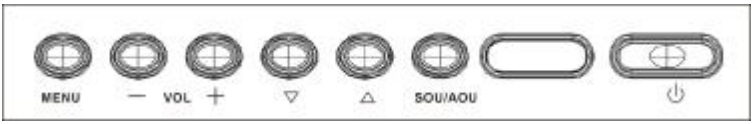
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

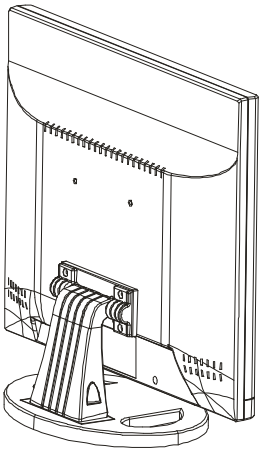
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

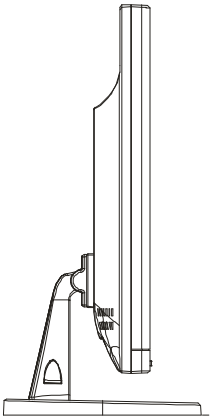


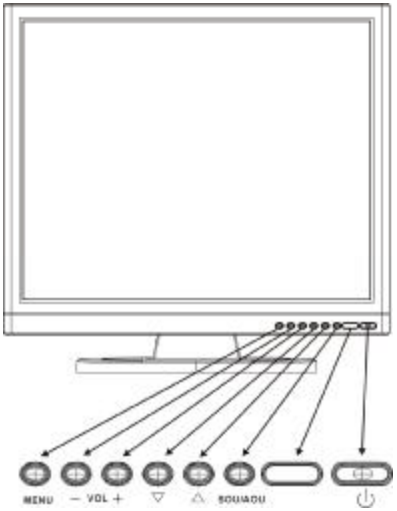

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

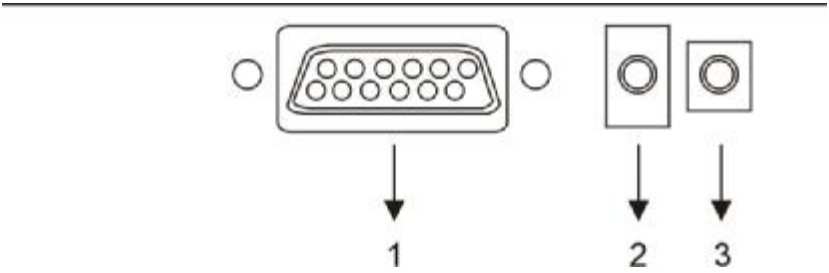
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

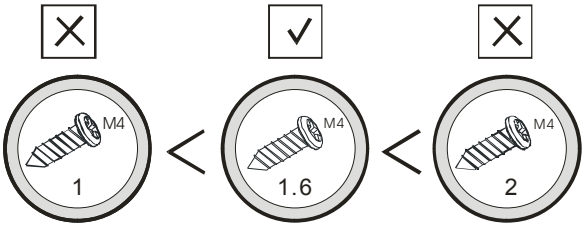
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

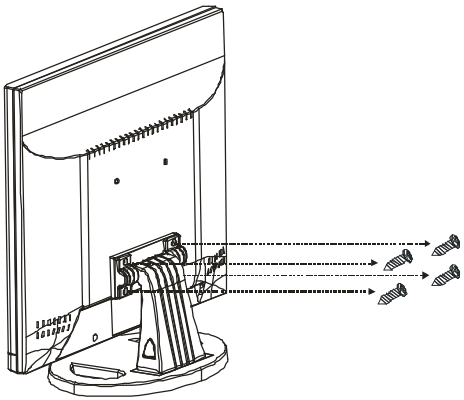
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable




M4 x 16L

User please use the correct screw type when installation.



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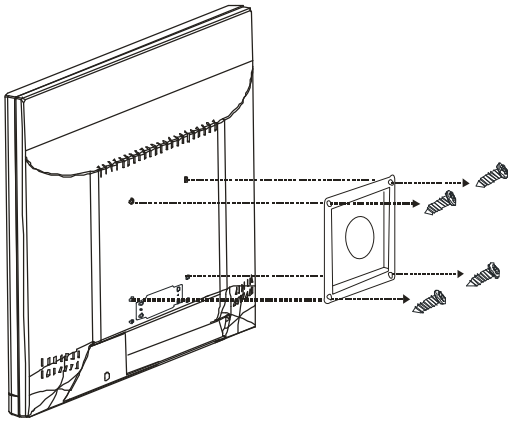

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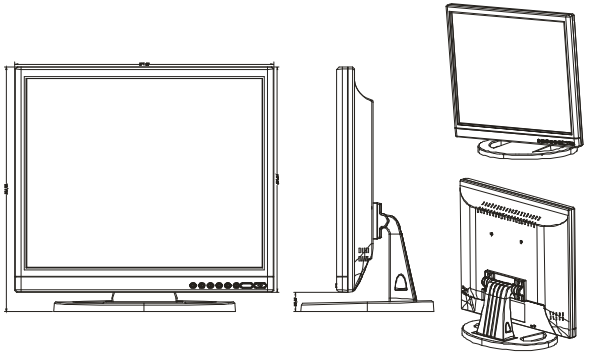

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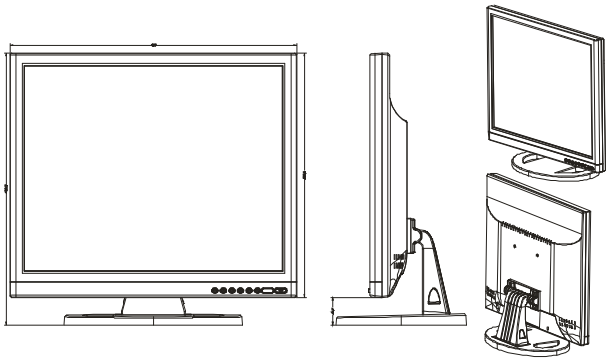
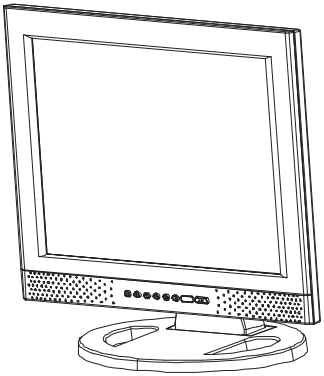


# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



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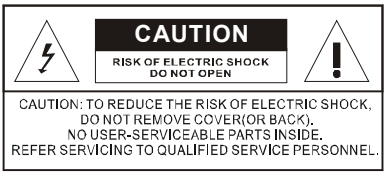
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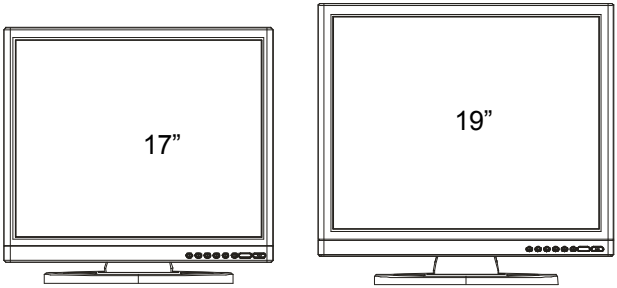
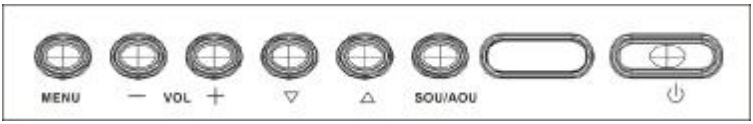
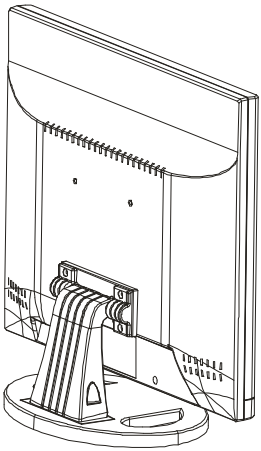
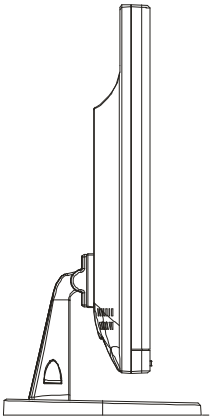


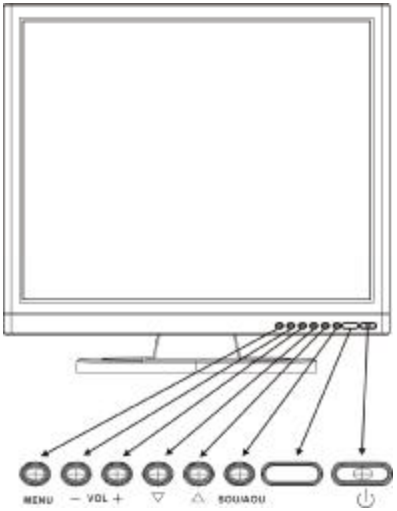

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

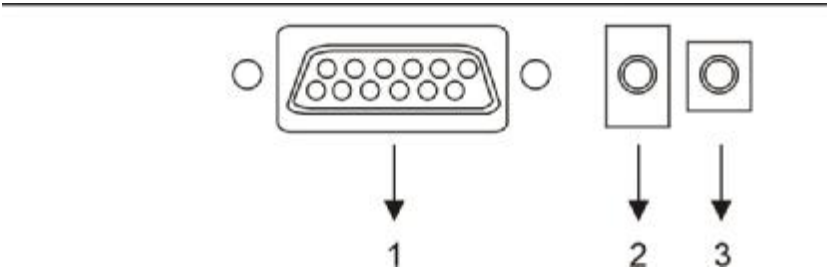
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

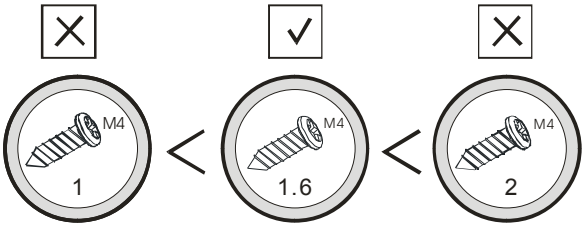
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

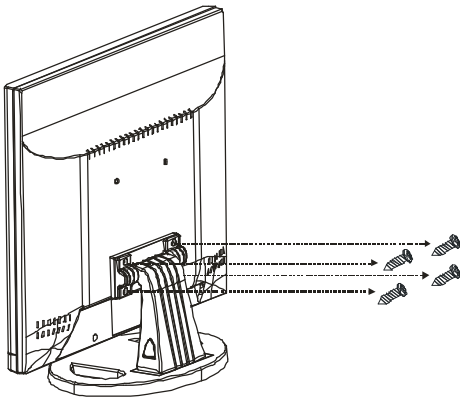
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

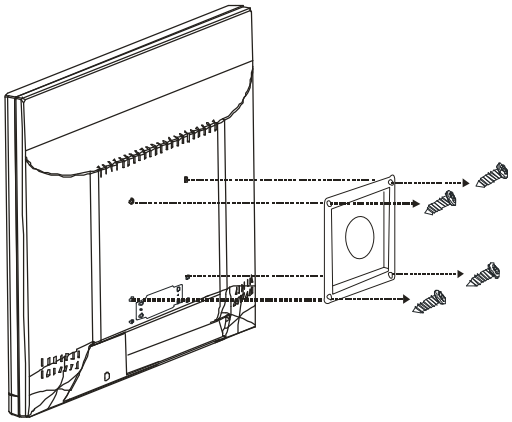



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

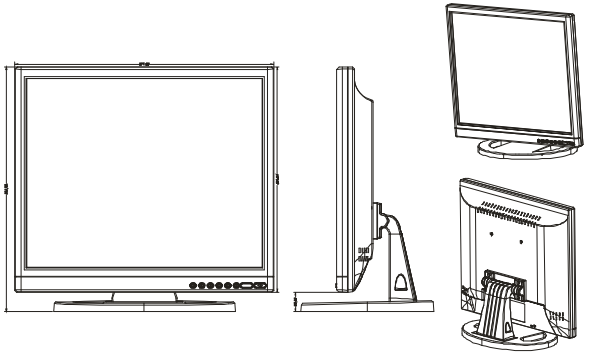
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

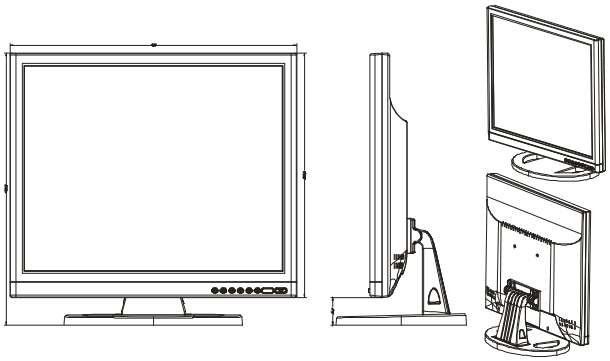
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



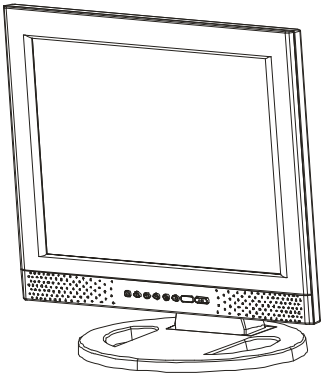
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



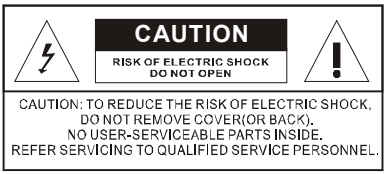
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

**FCC STATEMENT**

This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

**Canada Regulatory compliance statements**

This LCD does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

## Table of Contents

Warning…… 2
Important Safeguards…… 3
Safety Precautions……..4
Table of Contents…… 5
Components…….. …… 5
Feature…… 6
Exploring Your New Monitor……..7
Function Keys Instruction for LCD…….. 8
I/O Connection……9
OSD (On Screen Display)…… 10
Applicable Timing…… 13
Wall mountable……..... 14
Dimension……..... 15
Specification……..…….. 16

**Components**

(1) LCD Color Monitor 1
(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

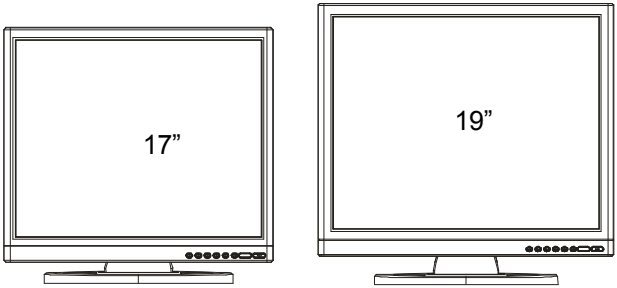
★ Support multiple language selections

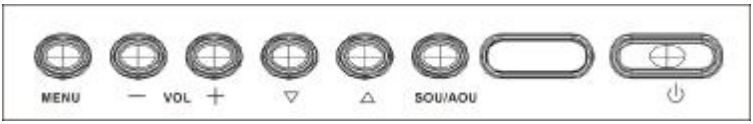
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

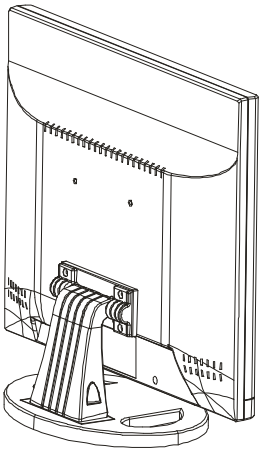
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

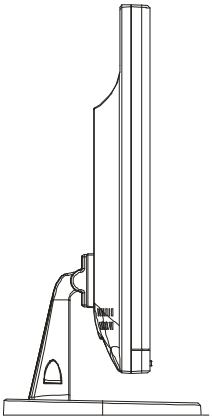


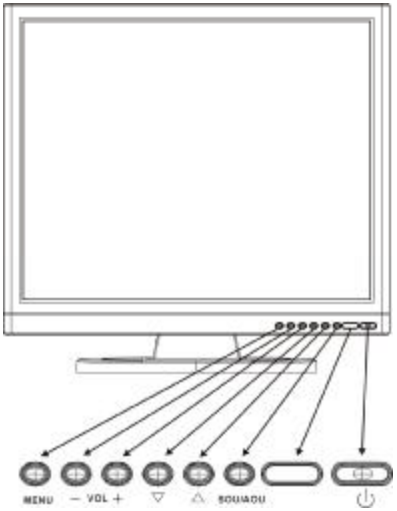

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

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**MENU** Menu: Activate OSD menu

**+** Right : Increase setting the menu bar, hot key to adjust volume up

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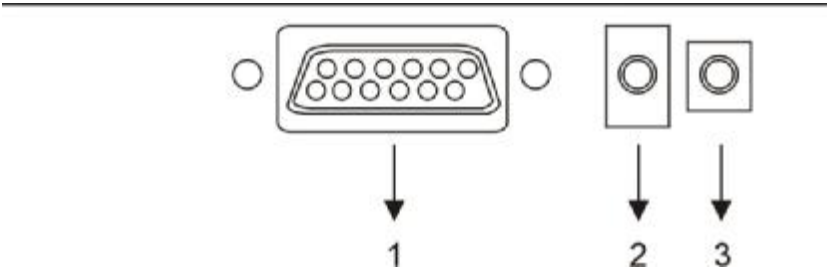
**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
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SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
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Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
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Clock：This function will provide user to adjust the clock of display screen.
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Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
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Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
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- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

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- Smart engine for Phase/Image position/Color calibration

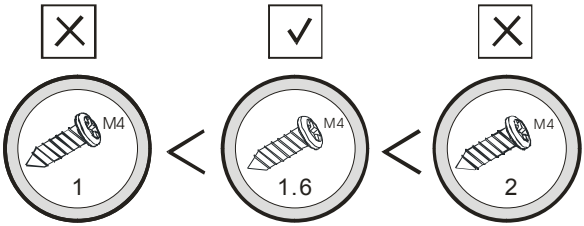
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

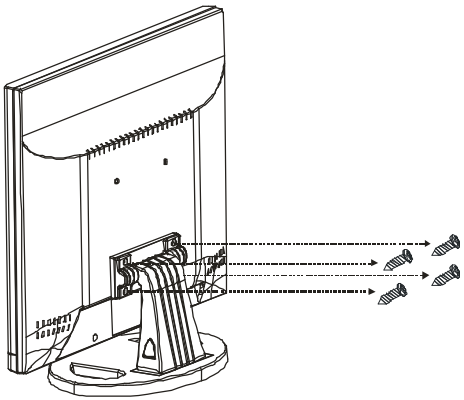
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

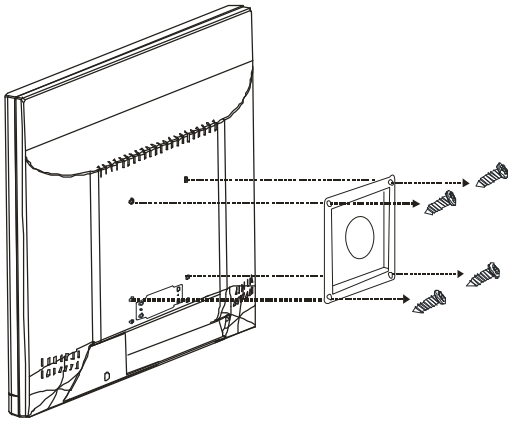



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

| Model | 17” | 19” |
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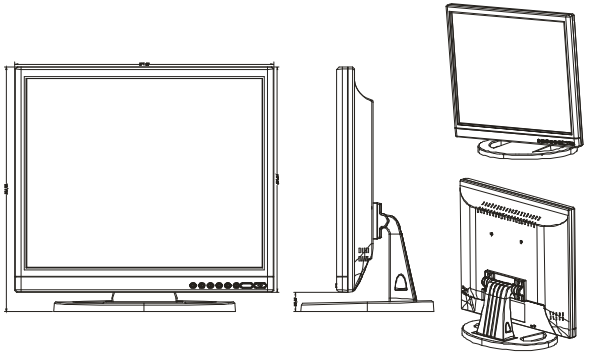
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

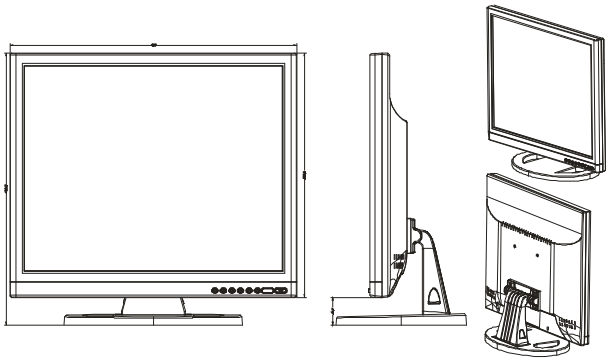
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



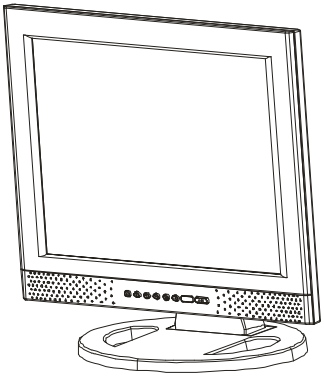
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



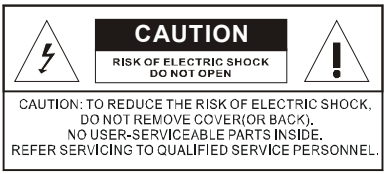
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

**FCC STATEMENT**

This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

**Canada Regulatory compliance statements**

This LCD does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

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(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
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## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

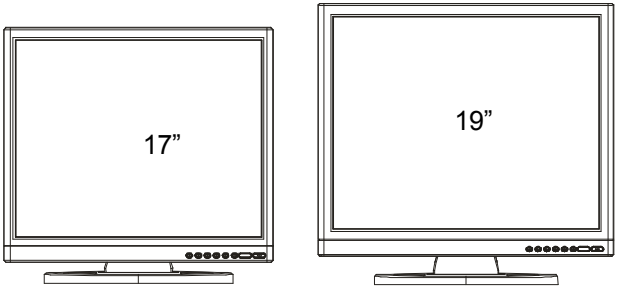
★ Support multiple language selections

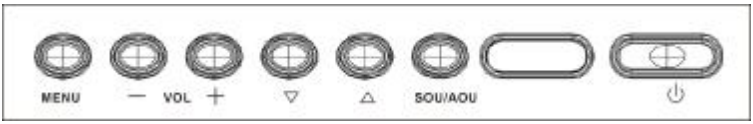
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

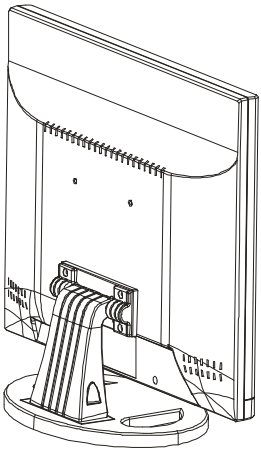
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

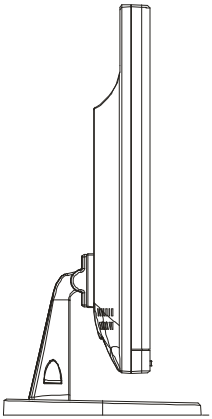


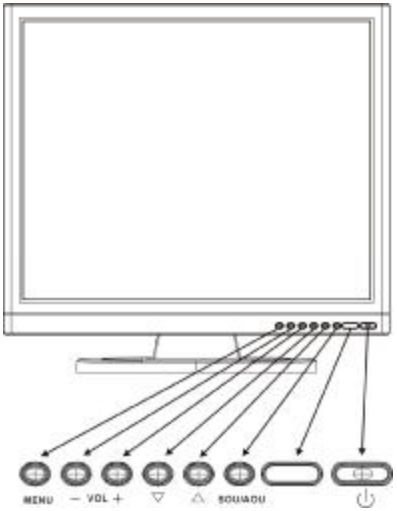

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

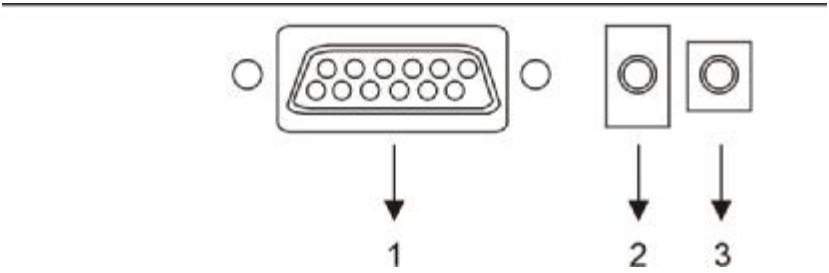
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD V. Pos.：This function will provide user to adjust the vertical position of OSD area.
Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
| | 72 Hz | 48.10 KHz | 50.000 MHz | VESA Standard |
| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
| 1024 x 768 XGA | 60 Hz | 48.40 KHz | 65.000 MHz | VESA Guideline |
| | 70 Hz | 56.50 KHz | 75.000 MHz | VESA Standard |
| | 75 Hz | 60.00 KHz | 78.750 MHz | VESA Standard |
| 1280 x 1024 SXGA (17''& 19''only) | 60 Hz | 64.00 KHz | 108.000 MHz | VESA Standard |
| | 75 Hz | 80.00 KHz | 135.000 MHz | VESA Standard |

**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

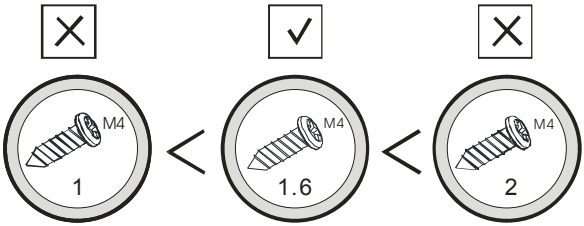
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

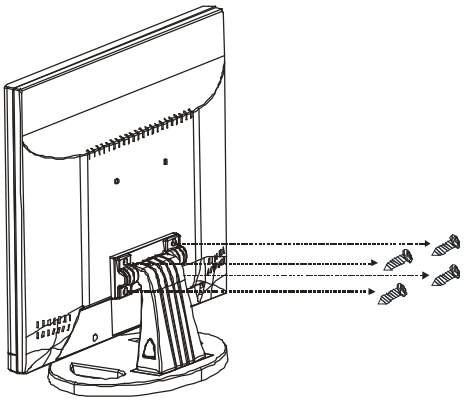
**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable

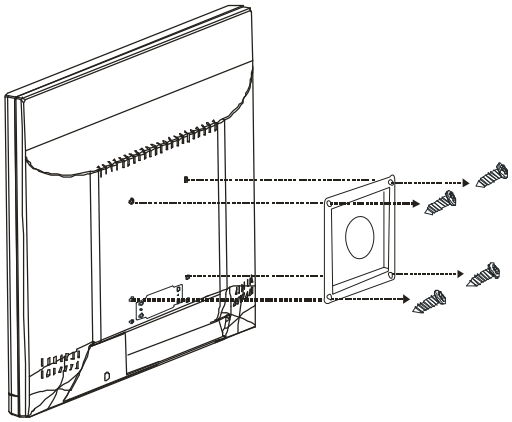



M4 x 16L

User please use the correct screw type when installation.



The desktop bracket and mount type bracket could use the same screw



# Specification

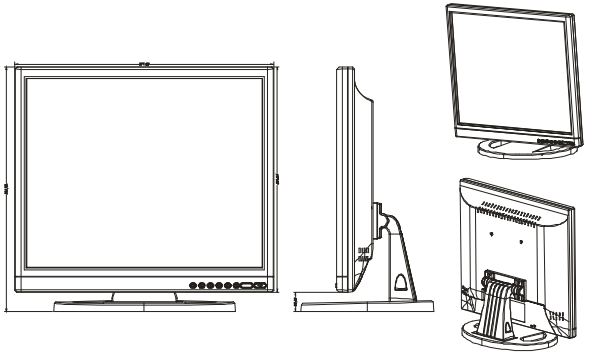
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

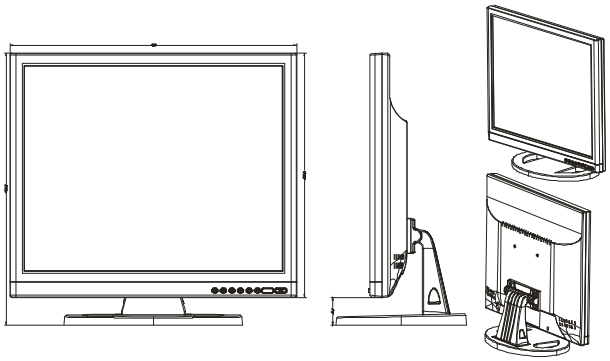
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



19” LCD



# VGA17LCD
# VGA19LCD

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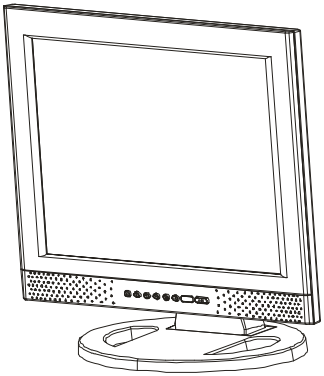
## USER MANUAL



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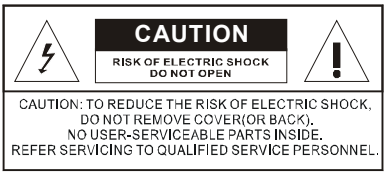
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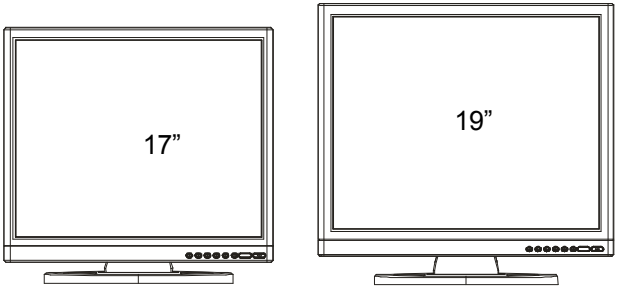
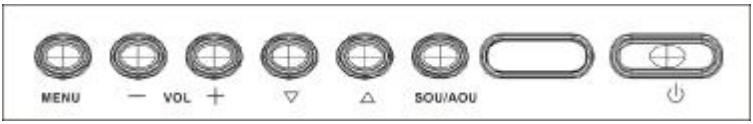
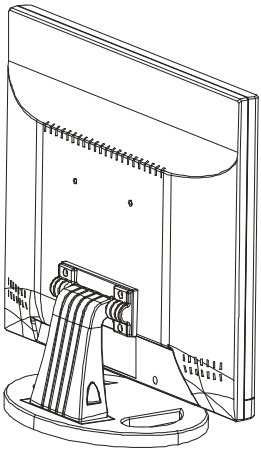
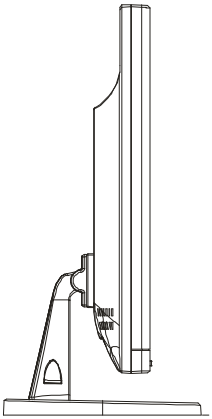



**Back**



**Side**



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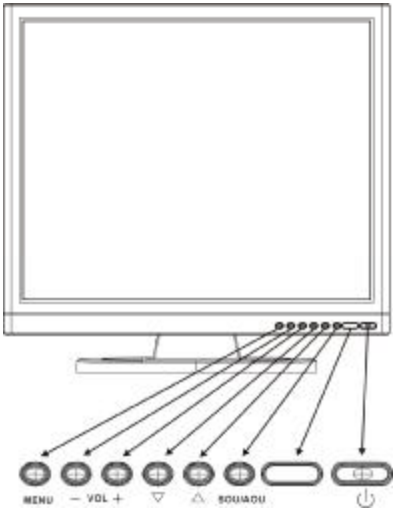


△ Up: Scroll up the menu bar, hot key to adjust channel up

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**MENU** Menu: Activate OSD menu

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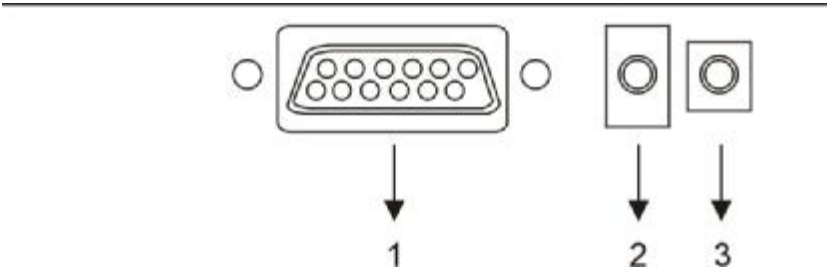
## I/O Connection:




1. VGA input
2. PC Audio input
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## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

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Phase：This function will provide user to adjust the Phase of display screen.
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Sharpness：This function will provide user to adjust the sharpness of display screen.
Setting value from 0 ~ 4. Default value is 2.
Exit：Back to main menu.

**OSD**

OSD H. Pos.：This function will provide user to adjust the horizontal position of OSD area.
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Setting value from 0 ~ 100. Default value is 50.

OSD Timer：This function will provide user to setup OSD appearance time. (Unit is second)
Setting value from 0 ~ 27. Default value is 7.

Reset：Recover to default setup.

Language：This function will provide user to select 7 types of OSD languages, including English, Japanese, Simplified Chinese, Tradition Chinese, Italic, German and French.

Exit：Back to main menu.

**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

## Applicable Timing

VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
VGA Support Timing

| Resolution | Refresh Rate | Horizontal Frequency | Pixel Frequency | Standard Type |
|---|---|---|---|---|
| 640 x 480 VGA | 60 Hz | 31.50 KHz | 25.175 MHz | Industrial Standard |
| | 72 Hz | 37.90 KHz | 31.500 MHz | VESA Standard |
| | 75 Hz | 37.50 KHz | 31.500 MHz | VESA Standard |
| 800 x 600 SVGA | 60 Hz | 37.90 KHz | 40.000 MHz | VESA Guideline |
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| | 75 Hz | 46.90 KHz | 49.500 MHz | VESA Standard |
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**Analog RGB Input port**

- Support for Sync-on-Green (SOG)

**Auto Detection/Auto calibration**

- Input format detection
- Compatibility with standard VESA mode and support user-defined mode
- Smart engine for Phase/Image position/Color calibration

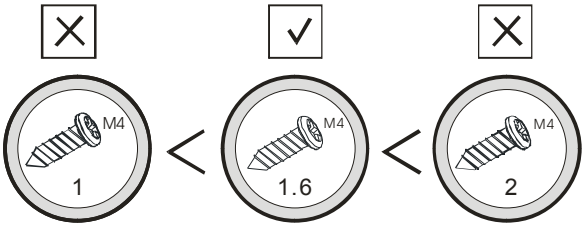
**Scaling**

- Fully programmable zoom ratios
- Independent Horizontal/Vertical scaling
- Sharpness/Smooth filter enhancement

**Other Option：Audio (1W) x 2**

**Control key:** Menu_KEY, Up_KEY, Down_KEY, Left_KEY, Right_KEY, Auto_KEY and Power_KEY.

## Wall mountable




M4 x 16L

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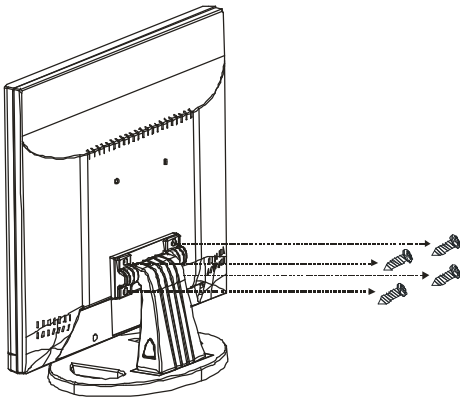

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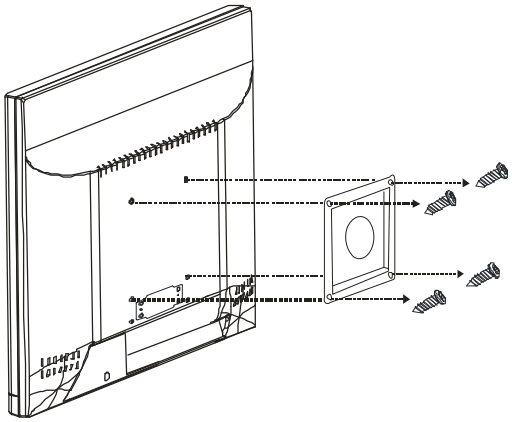


# Specification

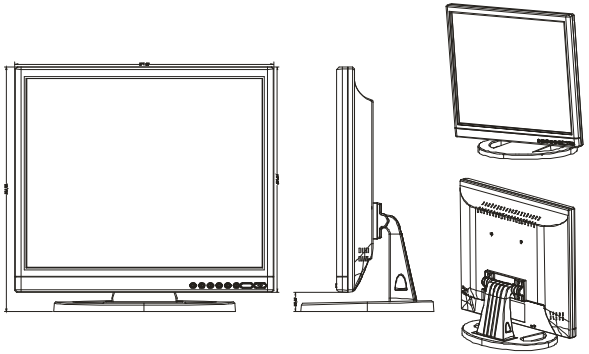
| Model | 17” | 19” |
|---|---|---|
| Display Resolution (Panel) | 1280 x 1024@75Hz | 1280 x 1024@75Hz |
| Active Area (mm) | 337.920 (H) x 270.336 (V)mm | 376.32(H) x 301.056 (V)mm |
| Pixel Pitch | 0.264mm | 0.294mm |
| LCD Profile Ratio | 5:4 | |
| Display Color | 16.7M colors | |
| Brightness (Central) | 300 cd/㎡ (TYP *) | |
| Contrast Ratio | 800 : 1 (TYP *) | 1000 : 1(TYP *) |
| Viewing Angle | Left 80°/Right 80°/Up 80°/Down 80° | Left 85°/Right 85°/Up 85°/Down 85° |
| Response Time | 5ms(TYP *) | 5ms(TYP *) |
| Input Voltage | 96-256Vac, 60Hz/50Hz | |
| VGA Input | 15pin D-SUB connector x 1 | |
| Audio Input | 3.5mm stereo jack | |
| Speaker | 1W + 1W | |
| Power Consumption | 35W | |
| Operation Temperature | -10 to 50℃ (14 to 122℉) | |
| Storage Temperature | -20 to 60℃ (-4 to 140℉) | |

PS. 1.(TYP *) The brightness spec. is from panel spec.

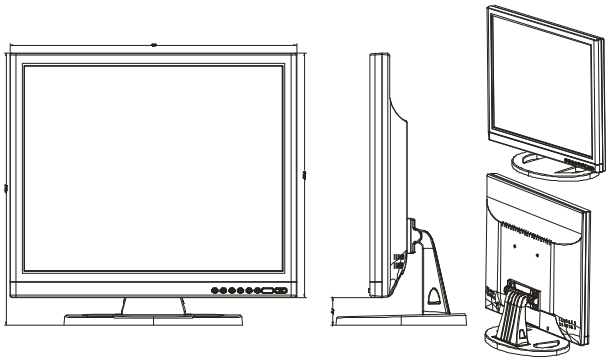
2. Design and Spec. are subject to change without notice.

## Dimension

17” LCD



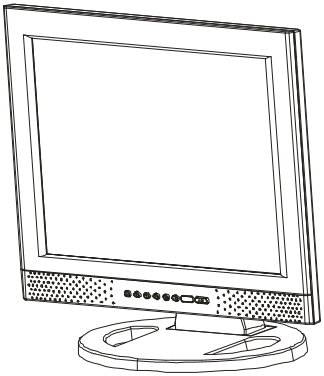
19” LCD



# VGA17LCD
# VGA19LCD

## 17" AND 19" TFT LCD VGA MONITORS

## USER MANUAL



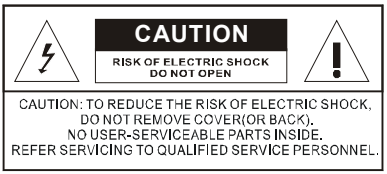
**Speco Technologies**
**200 New Highway**
**Amityville, NY 11701**
**800-645-5516**
***www.specotech.com***

**WARNING:**

TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS PRODUCT TO RAIN OR MOISTURE.

DO NOT INSERT ANY METALLIC OBJECT THROUGH VENTILATION GRILLS.

**CAUTION:**


CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN
CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK,
DO NOT REMOVE COVER(OR BACK).
NO USER-SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

**Explanation of Graphical Symbols**

The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.

The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the product.

## Important safeguards

Risk of electric shock – Do not open

To reduce the risk of electric shock, do not remove the back cover. There are no user-serviceable parts inside.

Removing the back cover voids the warranty.

Have your LCD repaired by qualified service personnel only.

Warnings and precautions

- Do not place your hands, face, or objects close to the ventilation openings of you LCD. The top of your LCD gets very hot from exhaust air that is released through the ventilation openings. Burns or personal injuries may occur if you are too close the LCD. Damage may occur if you place any object near the top of your LCD.
- Disconnect all cables before moving you LCD. Moving you LCD with its cables attached may damage the cables and cause fire or electric shock danger.
- Do not expose you LCD to rain or moisture.
- Keep your LCD away from excessive dust, high temperatures, moisture, or direct sunlight.
- Use your LCD in a well-ventilated area and do not cover the ventilation openings.
- Do not modify your LCD or use an unshielded power cord or video input source cable, or you may experience excessive interference.
- Disconnect your LCD and unplug the power cord when the LCD is not used for a long period of time.
- If the picture displayed is in any way abnormal, turn off your LCD, then disconnect it from the electrical outlet. Make sure that your video input source cable is connected correctly, then reconnect your LCD to the electrical outlet.
- Disconnect your LCD from the electrical outlet before cleaning or performing maintenance. Do not use liquid or aerosol cleaners. Use only a slightly damp cloth for cleaning.
- Do not place your LCD on an unstable cart, stand, or table. Your LCD may fall, causing serious damage.

## Safety Precautions

**Chapter 6 Safety, Regulatory and Legal Information**

**US Regulatory compliance statements**

Your LCD VGA has been tested and found to comply with the limits for a Class B digital devices, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. Your LCD generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instruction, may cause harmful interference to radio communication. However, there is no guarantee that interference with not occur in a particular installation. If your LCD does cause harmful interference to radio or television reception, which can be determined by turning your LCD off and on, the user is encouraged to try to correct the interference by one or more the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/LCD technician for help.

**Warning:** Use only shielded signal cables to connect I/O devices to your LCD. You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the LCD.

**FCC STATEMENT**

This LCD complies with part 15 FCC Rules. Operation is subject to the following two conditions (1) This device may not cause harmful interference. (2) This LCD must accept and interference received, including interference that may cause undesired operation.

**Canada Regulatory compliance statements**

This LCD does not exceed the Class B limits for radio noise emissions from digital apparatus as set out in the radio interference regulations of Industry Canada.

## Table of Contents

Warning…… 2
Important Safeguards…… 3
Safety Precautions……..4
Table of Contents…… 5
Components…….. …… 5
Feature…… 6
Exploring Your New Monitor……..7
Function Keys Instruction for LCD…….. 8
I/O Connection……9
OSD (On Screen Display)…… 10
Applicable Timing…… 13
Wall mountable……..... 14
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**Components**

(1) LCD Color Monitor 1
(2) Accessories
(a) Power cord 1
(b) User Manual 1
(c) Audio PC line 1
(d) VGA Cable 1
(e) Power Adapter 1

## Feature

★ Zoom and shrink scaling

★ Integrated 8-bit triple-channel ADC/PLL

★ Built-in internal amplifier and speakers

★ 1280*1024 SVGA support for computer input (17”/19”)

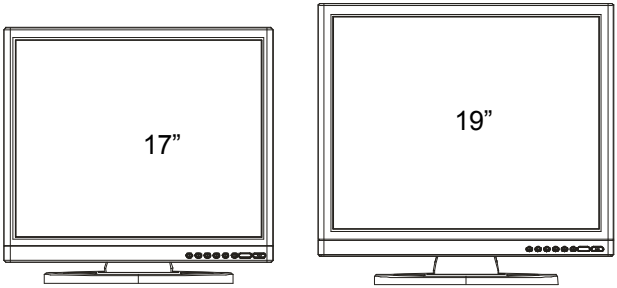
★ Support multiple language selections

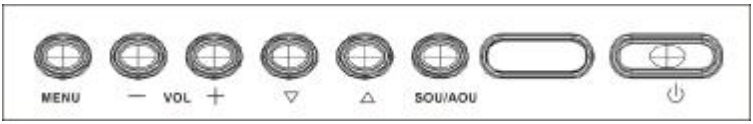
★ 2D comb filter and 2D de-interlace

## Exploring Your New Monitor

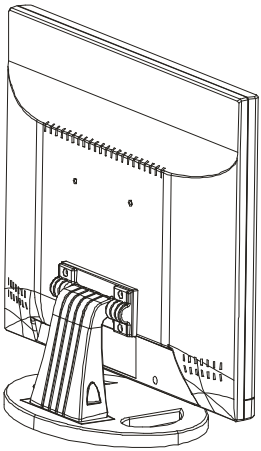
You can operate your monitor by using the buttons on the front panel.

**Front Panel**

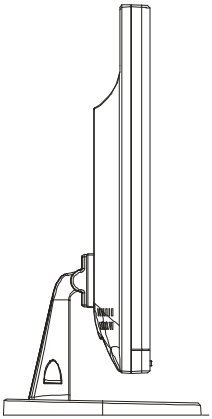


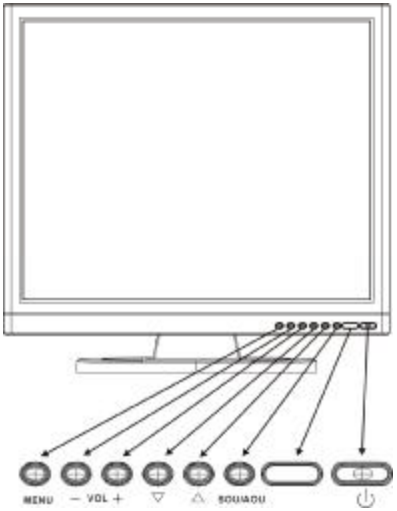

**Back**



**Side**



## Function Keys Instruction for LCD




△ Up: Scroll up the menu bar, hot key to adjust channel up

▽ Down: Scroll down the menu bar, hot key to adjust channel down

**MENU** Menu: Activate OSD menu

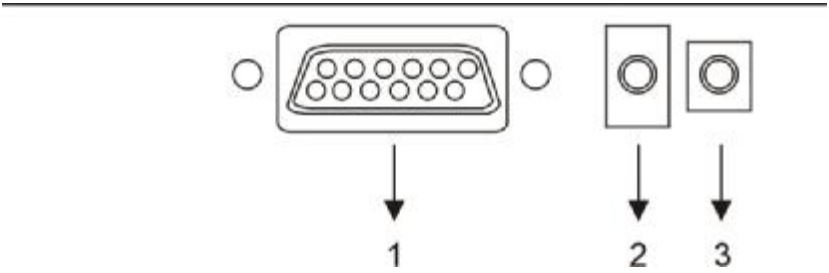
**+** Right : Increase setting the menu bar, hot key to adjust volume up

**–** Left : Decrease setting the menu bar, hot key to adjust volume down

**SOU/AOU** Source: Change input source / Auto adjust

⏻ Power: Turn on or off the main board

## I/O Connection:




1. VGA input
2. PC Audio input
3. DC / 12V input

## OSD (On Screen Display)

**OSD (On Screen Display)** menu enables user to manipulate the image and settings OSD main menu consists of source:

**OSD Menu** Contrast, Brightness, Gamma Correct, Color Adjust, , Exit of Color, H. Position, V. Position, Sharpness, Phase, Clock, Exit of Picture, Language, OSD H. Position, OSD V. Position, OSD Time, Exit of OSD, Reset, Volume, Exit of Miscellaneous, Exit.

**LCD OSD Setting**

**Color**

Auto Color：Auto Color adjustment (Only for RD engineer mode)

Contrast：Adjust light and dark level of the TFT display. Setting value from 0 ~ 100. Default value is 50.

Brightness：Adjust shade and brightness level of TFT display. Setting value from 0 ~ 100. Default value is 50.

Color Temp：This function will adjust color temperature; more details please refer to below menu.

Exit：Back to main menu.

Color temperature

9300K：Select cold color temperature (White and Blue color bias).
6500K：Select normal temperature (Comprehensive color).
5800K：Select warm color temperature (Yellow bias).
SRGB：Special application for computer source (R=G=B=128) that setting would be display true color faithfully.
USER：This function will provide user to adjust Red, Green and Blue gain level.
Exit：Back to main menu.

**Image**

Auto Adjust：This function will adjust the optimal parameters automatically.
H. Position：This function will provide user to adjust the horizontal position of display screen.
Setting value from 0 ~ 200. Default value is 100.
V. Position：This function will provide user to adjust the vertical position of display screen.
Setting value from 0 ~ 18. Default value is 9.
Clock：This function will provide user to adjust the clock of display screen.
Setting value from 0 ~ 100. Default value is 50.
Phase：This function will provide user to adjust the Phase of display screen.
Setting value from 0 ~ 63. Default value is 15.
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Setting value from 0 ~ 4. Default value is 2.
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**Source**

**EXIT**

D-SUB：Remind user the VGA connector is D-SUB 15pin type.

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VGA Timing

There are totally 11 timing modes that can be saved in memory by FIFO detecting architecture.
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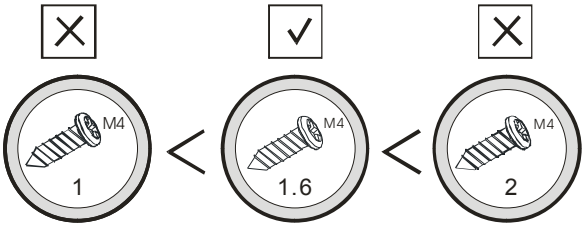


M4 x 16L

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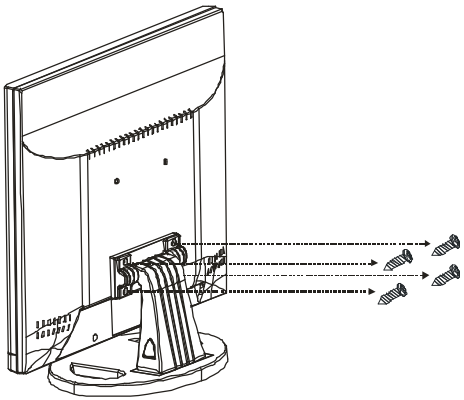

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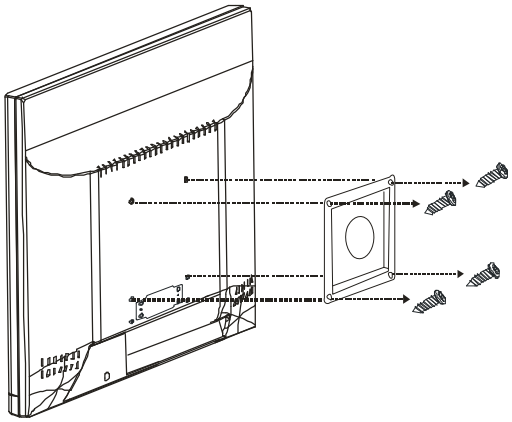

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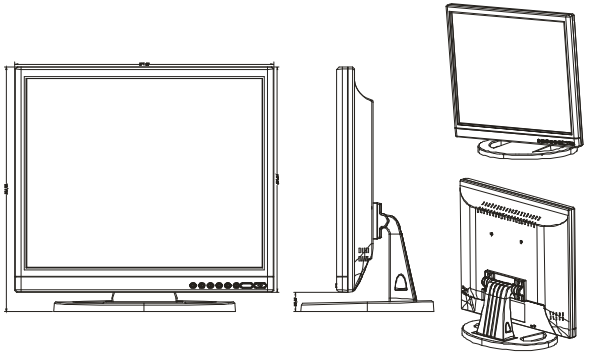
17” LCD



19” LCD